7-1-70 CLINTON OIL COMPANY
ASSUMED OPERATIONS FROM PAN
AMERICAN PET
Cffective 2-11-76 Clinton Oil Co. will be
Known as, Energy Beserves Group Inc

ptol | Sippel

FILE NOTATIONS			
intered in NID File	Checked by Chief	DAKB	
Entered On S R Sheet	Copy NID to Field Office		
ocation Map Pinned	Approval Letter		
Card Indexed	Disapproval Letter		
W R for State of Fee Land			
Date Well Completed 1-19-64	Location Inspected		
OW	Bond released		
GW OSPA	State of Fee Land	***************************************	
Driller's Log. 3-26-64 LOGS	FILED		
E E-L	GR GR-N N	ficro	
Lat Mi-L Soi	nic Gly Others Quijan	tong Death C	nating Record





LAND:

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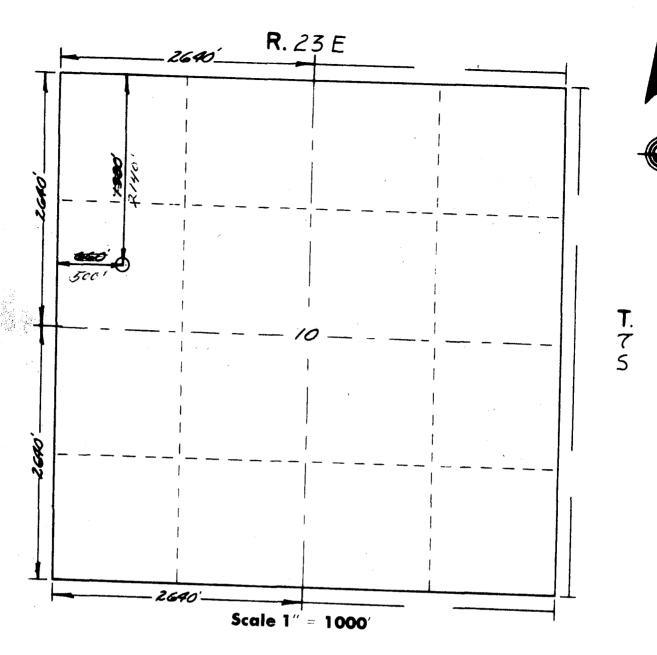
STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Subsequent Report of Water Shut-off. Subsequent Report of Altering Casing. Subsequent Report of Redrilling or Repair. Supplementary Well History. ATURE OF REPORT, NOTICE, OR OTHER DATA) 12/10 12/10 19 R23E (Range) (Meridian) Utah Ty or Subdivision) (State or Territory) unknown feet.
ATURE OF REPORT, NOTICE, OR OTHER DATA) 12/10 12/10 (N) SEX line and 500 ft. from W line of Sec. 10 R23E (Range) (Meridian) Utah ty or Subdivision) (State or Territory)
R23E (Range) (Meridian) Utah Uy or Subdivision) (State or Territory)
R23E (Range) (Meridian) Utah Uy or Subdivision) (State or Territory)
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Utah ty or Subdivision) (State or Territory) unknown feet.
unknown feet.
U. S. Government - (Blanket) S OF WORK
w sizes, weights, and lengths of proposed casings; indicate muddice formation, and date anticipate spudding-in.)
River (2850') and Wasatch (5700') formations or face casing in a 15" hole and if commercial approximately 5900' of 7" casing in a 9" nows require and anticipate multiple zone sing and stimulation of several sands within for evaluation. Will run IES, Microlaterole cemented in accordance with standard com-
n writing by the Commission before operations may be commend.

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

Riverton, Wyoming



Powers Surveyors, Inc. of Denver, Colorado
has in accordance with a request from Me. HAEVEY HOWARD
for PAN AMERICAN PETROLEUM determined the
Location of No. 2. U.S.A. PEARL BEOMONUEST
to be CENTER SM.NW, Section 10 Township 75
Range 23 E

SALT LAKE Meridian

UNTAN County, UTAN

The above Plat shows the location of the well site in said section.

POWERS SURVEYORS, INC.

by: Howard & Shuen

District Engineer

Date: DEC. 9, 1963 REGISTERED LAND SURVEYOR, UTAN #2685

December 11, 1963

Pan American Petroleum Corporation Box 1400 Riverton, Wyoming

Attention: Area Superintendent

Re: Notice of Intention to Drill Well
No. USA PEARL BROADHURST #2, 2140'
FNL & 500' FWL, SW SW NW of Section 10, Township 7 South, Range
23 East, SLEM, Uintah County, Utah.

Gentlemen:

as v z f

Insofar as this office is concerned, approval to drill Well No. USA Pearl Broadhurst #2 is hereby granted. However, this approval is conditional upon a surveyor's plat being furnished this office in accordance with Rule C-4(a), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to <u>immediately</u> notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer Office: DA 8-5771 or DA 8-5772 Home: CR 7-2890 Salt Lake City, Utah

This approval terminates within 90 days if this well has not been spudded in within said period.

Enclosed please find Form OGCC-8-X, which is to be completed

December 11, 1963

Pan American Pet. Corp.

if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE DIRECTOR

CBF : enp

cc:

Don Russell, District Engineer U. S. Geological Survey Salt Lake City, Utah

H. L. Coonts, Petroleum Engineer Oil & Gas Conservation Commission Moab, Utah

(MINIMUM SAFETY REQUIREMENTS)

· · · · ·

NOTICE

- 1. Blowout preventor <u>must</u> be installed prior to drilling below the surface casing.
- 2. Blowout preventor <u>must</u> be tested a minimum of once each day.
- 3. Manual blowout preventor controls <u>must</u> be connected and be in good working order.
- 4. Escape line <u>must</u> be installed prior to drilling below the surface casing.
- 5. Escape line <u>must</u> be operational, i.e., equipped with carriage and properly secured.

UTAH OIL & GAS CONSERVATION COMMISSION

UNITED STATES GEOLOGICAL SURVEY

PLEASE POST ON BULLETIN BOARD OF RIG DCG HOUSE

CONDITIONS OF APPROVAL

- The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
- 2. Drilling equipment shall not be removed from any suspended drilling well without first securing the written consent of the district engineer.
- A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered. Said casing shall also prevent damage to fresh water sources. All indications and tests of fresh water shall be reported.
- 4. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals, as coal, potash, and salt.
- Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of the U.S. Geological Survey, P.O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed total depth as of the end of the month, and if shut down, the reason therefor.
- 6. Two copies of a descriptive formation log of this well on Form 9-330, or other acceptable form, and two copies of all types of logs and surveys run of the hole shall be filed with the district engineer within 15 days after such information is received by operator or completion of the well, whichever is earlier. 416 EMPIRE BUILDING
- The District Engineer, D. F. Russell

 shall be notified on Form 9-33la in triplicate, giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work. If there is insufficient time for such notification, prior approval shall be obtained by telephone to one of our engineers at the numbers listed below:

District Office: D	Avis 8-2911, Ext	. 433	Area Code	801
Residence: CRes	twood 7-4157			
		4.0	2651 17	
		Annroyed S		

District Engineer

· 996 4-63 (10THS) ED IN U. S. A.

PAN AMERICAN PETROLEUM CORPORATION

WELL STATUS AND PRODUCTION REPORT

WALKER HOLLOW FIELD:

USA PEARL BROADHURST

LEASE: COUNTY: UINTAH STATE: UTAH

ACCT, DEPT, USE 42-919 PAGE 1

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	NUMBER			QT	R. 2	l	TWP.	1	₩o.	DAY		BBL\$.	WTR		R	ATIO	TPF	OR	GR.	ST	DAYS	BARRELS	BARRI	ELS	M	ICF	BARRELS	BARRELS		GAS MCF
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WELL STATUS

11. FLOWING OIL WELL
12. FLOWING GAS WELL
21. DOWNHOLE ELECTRIC PUMP
22. ROD PUMP - ELECTRIC MOTOR
23. ROD PUMP - GAS ENGINE
24. DOWNHOLE HYDRAULIC PUMP

25. GAS LIFT

31. GAS INJECTION WELL

32. WATER INJECTION WELL

33. WATER SOURCE WELL 41. SHUT-IN LACK OF MARKET

34. WATER DISPOSAL WELL

42. SHUT-IN HIGH GAS - OIL RATIO

43. SHUT-IN HIGH WATER - OIL RATIO

44. SHUT-IN OTHER

51. INACTIVE GAS INJECTION WELL 52. INACTIVE WATER INJECTION WELL 53. INACTIVE WATER SOURCE WELL

54, INACTIVE WATER DISPOSAL WELL

61. TEMPORARILY ABANDONED (EX-PRODUCING WELL)

52. TEMPORARILY ABANDONED (EX-PRODUCING ZONE)

63. TEMPORARILY ABANDONED (DRY HOLE) 64. TEMPORARILY ABANDONED (DRY ZONE)
71. PERMANENTLY ABANDONED ZONE 72. PERMANENTLY ABANDONED WELL 81. DRILLING

82. INCOMPLETE WELL - TESTING 83. ACTIVE RECOMPLETION
84. ACTIVE WORKOVER
91. FACILITY WELL

SIGNED

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SUBMIT IN DUPLIC .F.

(See oth struction reverse

'E*	For Bud	m aj get l	oproved. Bureau No. 42-R355.5.
ns on	5 LEASE DESIG	NAT	ION AND SERIAL NO.
side)			U-02651A
*			TTEE OR TRIBE NAME
	7. UNIT AGREEM	ENT	NAME
	8. FARM OR LEA	SE	NAME
	1	_	roadhurst
	9. WELL NO.	2	
	10. FIELD AND	POOL	, OR WILDCAT
	Walke	r	Hollow
			OR BLOCK AND SURVEY
	Sec. 10, 1	r7 :	S, R23E
	12. COUNTY OR PARISH		13. STATE
	<u> Uintah</u>	0 -	<u>Utah</u>
	i, di, Elc.)	9. E	LEV. CASINGHEAD
511	O' Gnd		CABLE TOOLS
D BY		أدما	
> 5 <u>1</u>	ırface-580	25	. WAS DIRECTIONAL SURVEY MADE
			No'
	27	. w.	AS WELL CORED
			No
NTING	RECORD		AMOUNT PULLED
L			None
.	·		None
	ELIDING PEGGE		
	TUBING RECORI	- -	PACKER SET (MD)
_ -	DEPTH SET (MD)		PACKER SEI (MD)
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	URE, CEMENT S		
	OUNT AND KIND		
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00 g	10-20 sa	nd,	
	_		
)	shut-in	1)	(Producing or
	Pro	du	cing

DATE 3-24-64

WELL CO	MPLETION	OR RECOM	PLETION F	EPORT	AND	LOG*	6. IF INDIA	N, ALLOT	TEE OR TRIBE NAME
1a. TYPE OF WELL	WELI	GAS WELL	DRY	Other			7. UNIT AGI	REEMENT	NAME
b. TYPE OF COM: NEW WELL	WORK DEEP		DIFF.	Other			S. FARM OR	LEASE !	NAME
WELL 2. NAME OF OPERAT	OVER L EN	LJ BACK LJ	RESVR.	Otner			USA Pe	arl B	roadhurst
		eum Corpo	ration				9. WELL NO		
3. ADDRESS OF OPE		edin corpo	* # C* C* C* C* C* C* C* C* C* C* C* C* C*					2	
P. O. Box	40. Caspe	r, Wyomin	a				10. FIELD A	ND POOL,	OR WILDCAT
4. LOCATION OF WE	LL (Report location	n clearly and in ac	cordance with any	State requir	rements)	*	Wa!	iker i	Hollow
		tion 10,	2140' FNI	., 500'	FWL		11. SEC., T., OR ARE.		R BLOCK AND SURVEY
At top prod. int	erval reported belo	o w					Sec. 10	ምማና	5 p22m
At total depth				_					
			14. PERMIT NO.		DATE ISS	UED	12. COUNTY PARISH	OR	13. STATE
							Uintah		Utah
15. DATE SPUDDED	16. DATE T.D. RE	ACHED 17. DATE	COMPL. (Ready to	prod.) 18	. ELEVAT	ions (df, rki	B, RT, GR, ETC.)*	19. EI	LEV. CASINGHEAD
12-16-63	1-2-64		-19-64				110' Gnd	<u> </u>	· · · · · · · · · · · · · · · · · · ·
20. TOTAL DEPTH, MD			D 22. IF MULT	CIPLE COMPL.	, 2	23. INTERVAL: DRILLED B	Y .	1	CABLE TOOLS
58001		717'			1	>	Surface-5		THE PARTONIONAL
24. PRODUCING INTER	WAL(S), OF THIS	COMPLETION-TOP,	BOTTOM, NAME (M	D AND TVD)*	•			25.	WAS DIRECTIONAL SURVEY MADE
Green Rive	er 4693'-5	340'							No 1
26. TYPE ELECTRIC A	ND OTHER LOGS R	UN						27. WA	S WELL CORED
IES. Gamn	na Rav Son	ic		_					No
2 8.			G RECORD (Rep	ort all string	s set in w				
CASING SIZE	WEIGHT, LB./F	T. DEPTH SET	(MD) HOI	LE SIZE		CEMENTI	NG RECORD	<u>-</u>	AMOUNT PULLED
10-3/4"	32,75#	515	1	5"	375	sacks		-	None
7"	20#, 23#	5798		9"	360	sacks	· · · · · · · · · · · · · · · · · · ·		None
29.	I	LINER RECORD			30). 	TUBING REC	ORD	
SIZE	TOP (MD)	BOTTOM (MD) S	ACKS CEMENT*	SCREEN (M	D)	SIZE	DEPTH SET (мр) ————————————————————————————————————	PACKER SET (MD)
31. PERFORATION REC 5340'-5335		•	****	32.			CTURE, CEMEN		
	•		•	DEPTH INT	<u>`</u>	' '	AMOUNT AND KI		
-	-	9'-5242'-52		53401-		500	gal mud	acid,	20,000# 10
with 5-way		_	3', 4800'	5259'-		500	gal mud	acid,	_20,000# <u>_1</u> 0
with 5-way	single pla	ne jet.		46931-	4800'	500	gal mud	acid,	15,000#
00.1			PROT	HODION		<u></u>	10-20	sand	
33.* DATE FIRST PRODUCT	ION PRODU	CTION METHOD (FIG		UCTION	and tune	of numn)	wen	STATUS	(Producing or
After load			a •		and type	oj puncp)	sh	ut-in)	
recovered	Z-Z-64 HOURS TESTED	Pumi	ping - Kob	OIL—BBL.	G	AS-MCF.	WATER-BB	roduc	GAS-OIL RATIO
			TEST PERIOD	1	/ "		[i	
3-13-64 FLOW, TUBING PRESS.	24 CASING PRESSURI	Open CALCULATED	OIL—BBL.	143 GAS-	MCE	WATE	135 R—BBL.	OIL GR	AVITY-API (CORR.)
THOW, TUBING PRESS.	CASING PRESSURI	24-HOUR RATE	JIL BBL.	UAS	ELCE .	" " "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J.II GR.	
34. DISPOSITION OF G	AS (Sold used for	fuel vented etc)	<u> </u>				TEST WITNE	SSED BY	
OT, PISCUSITION OF G	An (now, week jor.	,,,)					I I WILLIAM	11	•
35. LIST OF ATTACH	MENTS	747					1		

S.G. Baker TITLE Division Clerk

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see item 35.

Itam 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	воттом	DESCRIPTION, CONTENTS, ETC.		Т	OP
				NAME	MEAS. DEPTH	TRUE VERT. DEPT
	Weak to medi with few spec pour-point oi	um blow thro ks high pour- l (like axle gr P 744, FHP 2	ughout test. Recovered 15' Dolomite point oil and approximately 2# high ease). IHP 2355, ISIP 1570, IFP 30, 341. Temperature 102° F. No	Green River "H" Zone "I" Zone "J" Zone "K" Zone Wasatch	2762 4600 4810 5124 5271 5728	
Vater produ he Drill Ste		of the well is	s not known except as indicated by			



March 30, 1964

Pan American Petroleum Corporation 7. O. Box 40 Casper, Hyoming

> Ne: Well No. USA Pearl Broadburst #2 Sec. 10, T. 7 S., R. 23 R., Uintah County, Utah

Gentlemen:

In accordance with Rule C-19, General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, please complete and return the enclosed Forms OGCC No. P-9, "Well Status Report and Gas-Oil Ratio Tests".

Thank you for your cooperation in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK RECORDS CLERK

cnp

Enclosure

March 30, 1964

Pan American Petroleum Corporation P. O. Box 40 Casper, Wyoming

> Re: Well No. USA Pearl Broadhurst #2 Sec. 10, T. 7 S., R. 23 H., Uintah County, Utah

3

Gentlemen:

We are in receipt of your well log for the above mentioned well. However, upon checking this information, we notice that you did not report the water sands encountered while drilling.

Please complete the enclosed Forms OGCC-8-X, and return to this office as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK RECORDS CLERK

cnp

Enclosure

WELL STATUS REPORT AND GAS-OIL RATIO TESTS

Operator Pan American Petro	oleum C	orporatio	n	_ Field and	Reservoir	Walker H	lollow			C	ounty	Jintah				
Address P. O. Box 40, Cas	per, Wy	oming 826	02	Month		April,	1964									
	T			Ţ			T			Length	PROI	DUCTION	DUCTION DURING TEST		G.O.R.	a rave
LEASE NAME	Well No.		L.S.	Choke Size	TBG Press.	SEP Press.	SEP Temp.	of Test (Hrs.)	Gas M.C.F.	Oil Bbls.	Water Bbls.	Oil Grav	Cu. Ft./ Bbl.	(LEAVE BLANK)		
USA Pearl Broadhurst	2	3/11/64	Р	47	Kobe	,				2lı	,	143	137	28		
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	All	Tests Reported h	erein were m	ade in accord	lance with t	he Applicable	Rules, Regula	ations and Inst	ructions of th	ne Utah Oil &	Gas Conserva	ation Comm	nission.		····	

recuted this the 16th day of April 1964 PAN AMERICAN PETROLEUM CORPORATION
The of Wyoming J. B. Jones

Unity of Natrona District Services Supervisor

Utah Oil & Gas Conservation Commission

Well Status Report and Gas-Oil Ratio Tests

Form OGCC No. P-9

Authorized by Order In Cause No. 15

Effective December 14, 1958

17

WELL STATUS REPORT AND GAS-OIL RATIO TESTS

Operator Pan America	n Petro	leum Corr	oration	Field and	Reservoir	Red	Wash -	Green R	iver		County	Uint	ah		
Address P. O. Box 4	40, Casp	er, Wyom	ing	_ Month		June	, 1964								
	T				Ţ			1		Length	PRODUCTION DURING TEST				G.C.F
LEASE NAME	Well No.	Date of Test	Status	S.P.M.	L.S.	Choke Size	TBG Press.	SEP Press.	SEP Temp.	of Test (Hrs.)	Gas M.C.F.	Otl Bbls.	Water Bbls.	Osi Grav	Cu. Pr. Bbl.
USA Pearl Broadhurst	1	6/3/64	Prod.							24	172.4	152.9	4.4	27	1128
USA Pearl Broadhurst	2	6/15/64	Prod.							24	22.5	58.9	321.5	27	382
USA Pearl Broadhurst	3	6/13/64	Prod.							24	14.9	39.1	218.8	27	381
USA Pearl Broadhurst	4	6/12/64	Prod.							24	- 91.4	147.4	23.7	27	620
USA Pearl Broadhurst	5	6/30/64	Prod.							24	32.0	52.5	5.2	27	609
							- Dail	y Averag	e:		333.2	450.8	537.6		
						Tota	al Mont	n (June):		9996	13,524	17,20	7	:
USA Pearl Broadhurst	Flare	6/30/64				Tot	al Cons	ımed;			78 (9918	or 2.6	/day)		
	Ail	Tests Reported h	erein were ma	ide in accord	lance with	the Applicable I	Rules, Regular	tions and Instr	uctions of th	e Utah Oil (& Gas Conserva	ition Comm	negot		
Executed this the 21 day of		-	19 <u>6</u> 4	± E	Signaru	2 E	O. Wis	2							ervation Com l Gas-Oil Rati
												A			I No. P.9 r In Cause No
												Aut			nber 14, 1958







g/MD

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION 310 NEWHOUSE BUILDING SALT LAKE CITY 11, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Numb	er: USA Pear	l Broadhurs	t #2		
				. 0. Box 40	Phone 235-1341
Contractor Exe	ter Drilling C	ompany A	ddress_Ca	sper, Wyo.	Phone
Location: SW & NW	½ Sec. 10 T.	7 NX R. 23	E Uint	ah	County, Utah.
Water Sands:					
Depth		Volu	me		Quality
From	To	Flow Ra	te or Hea	<u>.</u>	Fresh or Salty
1. None	· · · · · · · · · · · · · · · · · · ·				
2					
3.					
5.				3	
Pormacton tops:	Green River	2762 4600 4810 5124 5271	everse side if	necessary)	

Remarks: Water producing capacity of the well is not known except as indicated by the Drill Stem Test, results of which appeared on the Form #9-330.

APR 1 5 1964

MOTE: (a) Upon diminishing supply of forms, please inform the Commission (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure. (See back of form)



CLINTON OIL COMPANY

217 NORTH WATER / WICHITA, KANSAS 67202 / 316 262-8231

June 26, 1970

Utah Oil & Gas Conservation Com. 1588 West North Temple Salt Lake City, Utah 84116

Re: Notice of Change of Operator

Gentlemen:

Listed below are leases that will be operated by Clinton Oil Company effective July 1, 1970. These were previously owned by Pan American Petroleum Corp.

Lease Name	Location	County
USA Pan American Wells no. 1 thru 10	Ashley Creek Field	Uintah
Walker Hollow Field Unit Wells no. 1 thru 5	Walker Hollow Field	Unitah

If further information is needed, please advise.

Very truly yours,

C. W. Vorachek Production Dept.



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah

SERIAL No.: U-02651-A

and hereby designates

NAME:

Clinton Oil Company

ADDRESS:

217 North Water Street, Wichita, Kansas

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

T-7-S, R-23-E, Uintah County, Utah

Section 9: E/2, E/2 W/2, SW/4 SW/4

Section 10: W/2, NW/4 NE/4

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

PAN AMERICAN PETROLEUM CORPORATION

Attorney-In-Fact

July 1, 1970

Security Life Building, Denver, Colorado

(Address)

Energy Reserves Group, Inc. P.O. Box 1201, Zip 67201 217 North Water Street Wichita, Kansas Phone 316 265 7721



February 12, 1975

State of Utah
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

Effective February 11, 1976, Clinton Oil Company will be known as Energy Reserves Group, Inc. Please change your records accordingly.

If you have any questions or if there are any requirements to fulfill with the state of Utah concerning the attached 0il and Gas Conservation Taxes, please advise.

Very truly yours,

E. M. Tatum

Utah Revenue Accountant

Attachments

ENERGY RESERVES GROUP, INC. U.S.A. PEARL BROADHURST NO. 2 SECTION 10 T7S-R23E UINTAH COUNTY, UTAH

APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL

The following information and attachments are submitted for approval to convert the U.S.A. Pearl Broadhurst No. 2 well located in the Walker Hollow Field to a Class II Injection Well. All submitted information and attachments are intended to meet the filing requirements as set forth by the Board of Oil, Gas, and Mining of the State of Utah in Rule I-5, APPLICATION FOR APPROVAL OF CLASS II INJECTION WELLS.

- A) Attached is six (6) copies of Form DOGM-UIC-I and three (3) complete sets of the attachments.
- B)
- (1) Attached is a plat showing the location of this well as originally surveyed (See Exhibit I). Attached is a plat showing the location and total depth of all Class II Injection Wells, water wells, abandoned wells, producing wells, drilling wells, and dry holes within 1/2 mile of the proposed Class II Injection Well (See Exhibit II). Also identified on this plat are the surface owners and operators within this 1/2 mile radius.
- (2) Attached is a copy of the notice of completion Form DOGM-UIC-2 and also a copy of the U.S.G.S. Form 9-330, Well Completion or Recompletion Report and Log.
 - i. N/A
 - ii. All logs run before and after the production casing was run should be on file with the Division of Oil, Gas and Mining.
- (3) Attached is a schematic diagram (See Exhibit III) showing the following for the Class II well:
 - Total depth and plug back total depth;
 - ii. Depths to injection intervals;
 - iii. Geologic name of injection intervals;
 - iv. Depths of the tops and bottoms of casings and cement; and
 - v. Size of casings and tubing, and depths of packers (See Exhibit IV for a more detailed schematic of the proposed downhole assembly);
 - vi. 100% bonding should still exist between the casing and formation from the cement top of 4125' to T.D. No increase in water production has been noticed in this well to indicate behind the pipe channeling from either below or above the presently producing intervals.
 - vii. No directional surveys were made when this well was drilled; therefore, the exact bottom hole location cannot be determined. However, deviation surveys taken show very little deviation from vertical; thus, the bottom hole location must be very close to the surface location. A tabulation of the deviation surveys is shown on Exhibit V.

(4) As shown on Form DOCM-UIC-1, the maximum surface injection pressure at the wellhead prior to fracturing is 1490 psig at a maximum injection rate of 800 BWPD. This pressure was calculated using No.2's frac gradient (See Exhibit VI for frac gradients) which was calculated from instantaneous shut-in pressures during acidizing operations. The formula used to calculate the frac pressure was as follows:

SIP = BHFP -P_h + P_o
Where:

SIP = Surface Injection Pressure:

BHFP = Bottomhole Frac Pressure and was calculated
by 0.69 psi/ft x 5345';

Ph = Hydrostatic pressure due to the column of injection fluid and was calculated by 0.43 psi/ft x 5345; and

P_O = Pressure drop across the orifices shown in Exhibit IV and assumed to be 100 psig.

Representative analysises of the injection fluid and the lithology and rock properties of the injection zone and confining strata are shown in Exhibits VII, VIII and IX.

- (5) Proposed operating data:
 - i. In order to inject water, ERG will utilize a portable water injection plant with the following control devices designed to control the injection rate and pressure:
 - a. Pump high discharge pressure shut-down switch,
 - b. Pump low discharge pressure shut-down switch,
 - c. Pump lubricator oil level shut-down switch,
 - d. Pump Crank case oil level shut-down switch,
 - e. Low water tank shut-down switch,
 - f. Engine low oil pressure shut-down switch, and
 - g. Engine high water temperature shut-down switch.

The plant has pump relief piping with an adjustable relief valve. Both pressure and rate will be controlled by the engine RPM. A 2" plunger size will be utilized in the pump which at maximum RPM will allow for a maximum pressure of 1500 psi. At the wellhead, a flow rate totalizer and pressure guage will be installed to monitor both the rate and pressure daily. In addition to monitoring the injection pressure, a pressure guage will be installed on the casing to monitor for failures.

- ii. The water to be injected is produced water from ERG's producing wells in the U.S.A. Pearl Broadhurst Lease (See Exhibit II for lease boundary lines). These wells are producing from the Green River Formation zones "H", "J", and "K" found at a depth of 4600' to 5350'.
- iii. Attached Exhibits VII A and VII B are qualitative analysises of the 800 BWPD to be injected. The suspended solids shown in these analysises will be removed by using a filter media type filtration system.
- vi. The Green River Formation in the Walker Hollow Field area is found at a depth of 2750' to 5725' and is oil productive in the "H", "J", and "K" intervals from 4600' to 5350'. The same zones are productive to the east at Exxon's Walker Hollow Unit, to the south at Chevron's Red Wash Field, to the west on Ken Luff's leases, and only minimally to the north. These intervals and the confining zones are in lensing sandstone networks made up of complex sandstone and siltstone. (See Exhibit VIII for lithological descriptions taken from the No. 14 well). Oil entrapment in these networks was due to lateral updip pinchout of these sandstone lenses and overlying and underlying impermeable beds. These same geologic factors will ensure confinement of the injection water into the proposed intervals.

v. There are no known underground sources of drinking water in this The injection formation waters are the same as in Exhibits VII. vi. Qualitative analysises of the zones between and above the proposed injection zones are shown in Exhibits IX - A and IX - B. These analysises were taken from DST's of the Green River "I" zone at a depth of 4964' and the Upper Green River sand at 3450'. All of these intervals are at a depth to deep to be economically used for drinking water, are in an area not likely to supply a public water system, and have water quality not fit for human consumption. Although contamination of underground drinking water is not applicable, ERG has the following contingency plans to cope with shut-ins and well failures: If this well is shut-in for any reason, the #5 well will be used for water disposal. This well is currently an approved Class II Injection Well. Should both wells be shut-in, the approved emergency pit located at the #2 well location will be used for water disposal. Should a downhole failure occur in the #2 well, the bottom hole assembly will be equipped with a shut-off valve that will allow for the tubing to be pulled while stopping the well from back flowing, Thereby, injection fluids will be isolated in the injection zones. stated under 5 -i, failures of this kind will be indicated by changes in the casing pressure. (7) No formation testing has been done. In order to convert this well to injection, ERG will reperforate the zones as indicated on Exhibit III. Each one foot interval will be isolated and acidized with a 50/50 mixutre of 15% HCL and xylene. After the last zone has been acidized and all spent acid recovered by swabbing, the casing will be tested to 2500 psi. The Division will be notified prior to this testing so as to have able opportunity to witness. After the reperforating and clean-up has been completed, the assembly as indicated in Exhibits III and IV will be rum. Prior to setting the packers, Nalco Visco Uni-treat 3900 packer fluid will be circulated in the tubing casing annulus. Once this is completed, the packers will be set. A standing valve will then be dropped in order to internally pressure test the tubing and bottom hole assembly to 2500 psi. The blank injection valves will subsequently be retrieved and sized orifice valves will be reran so the flow down the tubing can be split into the three injection intervals. Injection will commence as soon as this is completed with 600 BWPD being injected into the "K" intervals, and 100 BWPD being injected into both the " $\mathtt{J}^{"}$ and " $\mathtt{H}^{"}$ intervals. Monitoring will be performed as already stated. There are no defective wells within this area. (10) To recover hydrocarbons that would otherwise not be recovered by the natural energy of this reservoir, it is mandatory the injection fluids stay in the proposed intervals. It is therefore ERG's intention to take all necessary steps to insure the injection fluids do not migrate out of As already stated, there are no known USDW sources within this area. Other pertinent information concerning aquifer exemption is discussed under B) 5-vi.

All information submitted within this application is correct and accurate to the best of my knowledge. Bertoclio Signed: THE STATE OF WYOMING)) SS. COUNTY OF NATRONA BEFORE ME, the undersigned authority, on this day personally appeared Paul C.

Bertoglio known to me to be Petroleum Engineer for Energy Reserves Group, Inc. and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct. SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 25th _____day of <u>October</u> 1984. LINDA ANDREWS - Notary Public County of State of Wyoming Converse My Commission Expires Apr. 16, 1985

My Commission Expires April 16, 1985

Exhibit I - Well Plat R. 23E 2640'-2640 500

Courses Surveyers, Inc. of Panyor, Colorado

the in considerate with a request from all Maskey Mandele

for 17,000 Actions and 18 theretains determined the

location of the A Absell Georganists

colorady Action at Township P Source

The policy Action to Salt Large Maridian

almost County, Other

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CONSTRUCTORS, INC.

Hound T. Duer

Pistrice Engineer

16-63 COUSTREED LAND SURVEYOR, UTAN 2685

Prop 18:187-63

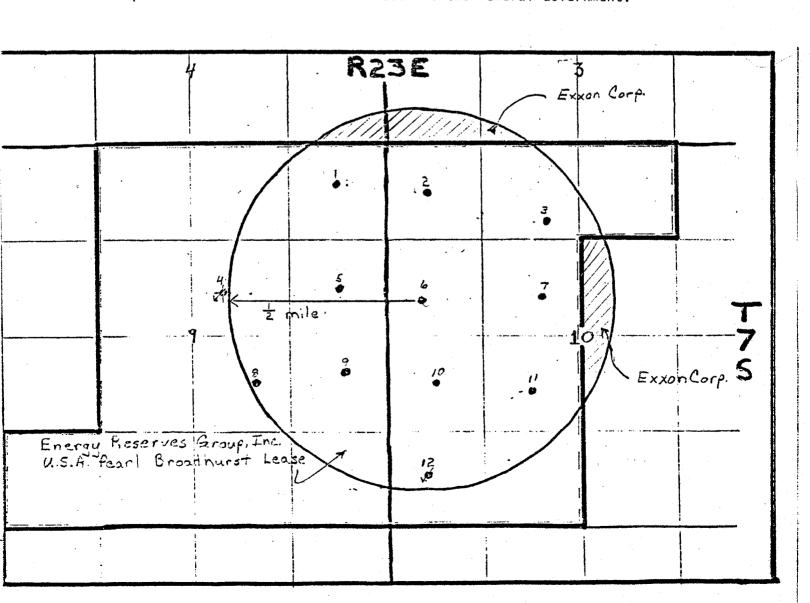
TOTAL DEPTH

WELL STATUS

IELL NAME & LOCATION

the state of the s		
JSA Pearl Broadhurst # 13 592' FNL & 713' FEL Section 9 T7S-R23E	5600'	Producing Oil Well
JSA Pearl Broadhurst # 12 561' FNL & 559' FWL Section 10 T7S-R23E	5510'	Producing Oil Well
JSA Pearl Broadhurst # 9 1072' FNL & 2159' FWL Section 10 T7S-R23E	5616'	Producing Oil Well
JSA Pearl Broadhurst #3 2055' FNL & 2205' FEL Section 9 T7S-R23E	5907'	P & A'd Injection Well
USA Pearl Broadhurst #14 1980' FNL & 659' FEL Section 9 T7S-R23E	5480 '	Producing Oil Well
USA Pearl Broadhurst # 2 2140' FNL & 500' FWL Section 10 T7S-R23E	5800'	Producing Oil Well
USA Pearl Broadhurst #17 2104' FNL & 2112' FWL Section 10 T7S-R23E	5402'	Producing Oil Well
USA Pearl Broadhurst #10 2029' FSL & 1819' FEL Section 9 T7S-R23E	5550'	Producing Oil Well
USA Pearl Broadhurst #1 2130' FSL & 575' FEL Section 9 T7S-R23E	5902'	Producing Oil Well
USA Pearl Broadhurst #16 1977' FSL & 662' FWL Section 10 T7S-R23E	5487'	Producing Oil Well
USA Pearl Broadhurst #8 1846' FSL & 1967' FWL Section 10 T7S-R23E	5500'	Producing Oil Well
USA Pearl Broadhurst #5 743' FSL & 564' FWL Section 10 T7S-R23E	5907'	Dual Completion Producing Oil Well/Disposal Well

Surface ownership of all lands within the encircled is the Federal Government.



Form 9-330 (Rev. 5-63)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

erse side) 5. LEASE DESIGNATION AND SERIAL NO.

S=1+	Take	TT-02	651 A

	454 FT10) I	OD DECOL	ADI ETIONI E	EDODT A	ND LOC	* 6. IF INDIAN, A	LLOTTER OR TRIBE NAME
			APLETION F	EPORT P	IND LOC		
ia. TYPE OF WELL	L: OIL.	L X GAS WELL	DRY	Other		7. UNIT AGREEM	ENT NAME
b. TYPE OF COMP	LETION:	7 .		-			
WELL X	WORK DEED	P- PLUG BACK	DIFF. DESVR.	Other		S. FARM OR LE.	
2. NAME OF OPERATO	OR		 			USA Pear	l Broadhurst
Pan Ameri	can Petro	leum Corp	oration			9. WELL NO.	
3. ADDRESS OF OPER				magazin of 1	12 1		2
P. O. Box	40. Caspe	er. Wyomi:	ng "				POOL, OR WILDCAT
4. LOCATION OF WEL	L (Report locatio	n clearly and in a	ccordance with an	y. State require	nents)*		er Hollow
At surface	W NW Sec	tion 10.	2140' FNI	. 500' F	WL	11. SEC., T., R., OR AREA	M., OR BLOCK AND SURVEY
At top prod. inte		- · · · ·	<u>)</u>				
At top prod. into		\$				Sec. 10.	T7S, R23E
At total depth				·	<u> </u>		-
			14. PERMIT NO.	D.	ATE ISSUED	12. COUNTY OR PARISH	
		Line the second				Uintah	Utah \
15. DATE SPUDDED	16. DATE T.D. R	EACHED 17. DATE	COMPL. (Ready to	į.		E, REB, RI, GR, MIC.)	19. ELEV. CASINGHEAD
12-16-63	1-2-64	£	1-19-64			5110' Gnd	
20. TOTAL DEPTH, MD	TVD 21. PLUG	G, BACK T.D., MD &	TVD 22. IF MUL	TIPLE COMPL.,	23. INTE	LED BY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5800¹	5	7171		:		→ Surface-580	101
24. PRODUCING INTER	VAL(S), OF THIS	COMPLETION-TOP	, BOTTOM, NAME ()	ID AND TVD)*		1.12.053	25. WAS DIRECTIONAL SURVEY MADE
Green Rive	- 46931_F	3401		•			No 1
Green May	1 10/5 - 1	,		- i	· :		1 <u> </u>
26. TYPE ELECTRIC A	ND OTHER LOGS I	RUN	- I			2'	7. WAS WELL CORED
IES. Gamm	a Ray Sor	nic	J 10 30 5		. # <u>1</u>		<u>No</u>
23.		CASI	NG RECORD (Rep	ort all strings		<u> </u>	<u> </u>
CASING SIZE	WEIGHT, LB./	FT. DEPTH SE	T (MD) HO	LE SIZE	CEN	IENTING RECORD	AMOUNT PULLED
10-3/4"	32,75#	519	5 - 1	5"	375 sack	CS CO	None
711	20#, 23#	5798	3	9"	360 sack	(S	None
11		.,					
· ·					1.13 Å		3 7 2 3 7 5 Sw
29.		LINER RECORD			30.	TUBING RECOR	D .
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD) SIZE	DEPTH SET (MD)	
				ge d			# 2
							<u> </u>
31. PERFORATION REC				32.	ACID, SHOT	, FRACTURE, CEMENT	SQUEEZE, ETC.
53401-5335				DEPTH INTE		AMOUNT AND KIND	
single plan	e jet. 525	59'-5242'-	5232'-5216	5340'-	5301'	500 gal mud ac	id, 20,000# 1g-
with 5-way	single pla	ant jet. 46	93', 4800'	5259'-		500 gal mud ac	id, 20,000# 10
with 5-way			€	4693'-4	18001	500 gal mud ac	id, 15,000#
WILL J-Way	pringre pre					10-20 s	and
33.*		• .	•	DUCTION	<u>. :</u>		<u> </u>
DATE FIRST PRODUCT		UCTION METHOD (Flowing, gas lift, p	umping—size a	nd type of pur	np) WELL ST	ratus (Producing or
After load recovered	2-2-64	Pun	nping - Kot	e .	<u> </u>	Pro	oducing
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR . TEST PERIOD	OIL-BBL.	GASM	CF. WATER-BBL.	GAS-OIL RATIO
3-13-64	24	Open		143		135	
FLOW. TUBING PRESS.	CASING PRESSUI		OIL—BBL.	, GAS-M	CF.	WATER-BBL. 0	OIL GRAVITY-API (CORR.)
		ZI-HOUR RAI		, 2	1.11		
34. DISPOSITION OF G	AS (Sold, used for	fuel, vented, etc.)				TEST WITNESS	ED BY
		* -		***	•	*	
35. LIST OF ATTACH	MENTS					4 Jan 20	13-11-5452
				•		4. A. A. A. A. A. A. A. A. A. A. A. A. A.	
36 I hereby certify	that the foregoin	ng and attached i	nformation is com	lete and corre	et as determin	ed from all available rec	ords -

S.G. Baker TITLE Division Clerk

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leuses to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

than 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

" FORMATION	тор	воттом _	DESCRIPTION, CONTENTS, ETC.	NAMB -	TO	P' .
	•,			NAME	MEAS. DEPTH	TRUE VERT. DEPT
TO NO. 1	46041 46341	TGT 45 mi	utes. Tool open I hour. FSI I hour.			
ST No. 1			roughout test. Recovered 15' Dolomite	Green River	2762	
<u>,</u> , , , , , , ,)	II	1 1	"H" Zone	4600	
			r-point oil and approximately 2# high	"I" Zone	4810	
•	pour-point o	il (like axle	grease). IHP 2355, ISIP 1570, IFP 30,	•	5124	
		al .	2341. Temperature 102° F. No	"J" Zone	14.	
1.	evidence of	gas on trip		"K" Zone	5271	
				Wasatch	5728	
ter prod	ucing capacit	v of the wel	is not known except as indicated by			
_	em Test.					
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Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

May 21, 1982

Energy Reserves Group, Inc. P.O. Box 3280 Casper, Wyoming 82602

Attn: Lance Neiberger



Surface Injection Pressure USA Pearl Broadhurst #5 Uintah County, Utah

Gentlemen:

In regards to your letter of May 13, 1982, in which you requested an injection pressure of 3000 psig, the Division denies your request. It is Division policy to allow a safety factor of approximately 20 percent below the fracturing pressure, or .75 psi/ft frac gradient, whichever applies. Your figure of 3000 psig is 99 percent of the calculated fracturing pressure.

Permission is hereby granted from this office for a maximum injection pressure of 2420 psig which allows a safety factor of approximately 20 percent, neglecting the small change in friction loss.

If you have any questions, please call.

Sincerely,

DIVISION OF OIL, GAS & MINING

GILBERT L. HUNT UIC GEOLOGIST

cc: Ron Firth, Chief Petroleum Engineer, DOGM

GLH:dc

STATE OF UTAH DIVISION OF OIL, GAS, AND MINING **ROOM 4241 STATE OFFICE BUILDING** SALT LAKE CITY, UTAH 84114 (801) 533-5771

FORM NO. DOGM-UIC-1 (Revised 1982)

LINDA

(RULE I-5 & RULE I-4)

ADDRESS P. O. Box	3280			NO	
Casper, Wyoming		ZIP <u>82602</u>		D RECOVERY	INJ. WELL ET
INDIVIDUALPARTNER		CORPORATIONX_	DISPOSAL	WELL	INJ. WELL
FOR ADMINISTRATIVE A	PPROXAL	earl well	LP GAS ST EXISTING	ORAGE WELL (RULE I-	
INJECT FLUID INTO THE SEC. $\underline{10}$ TWP.	78roadhi	rst No 2 23E		:	
		_ COUNTY, UTAH		•	
			•		
		ADI	PLICATION		
		Ari	EICATION		
Comes now the	applicant	and shows the Cor	poration Commiss	ion the follow	ring:
1. That Rule I- Gas storage op		uthorizes adminis	trative approval of	enhanced rco	very injections, disposal or L
		bmits the following	g information.		
Legse Name	· .	ell No.	Field		County
U.S.A. Pearl B			Walker	I	Uintah
Location of Enhanced Recover	v			7.0	
Injection or Dispesal Well	SW NV			vp. <u>7\$</u>	R _{ge} . <u>23E</u> To be tested
New Well To Be Drilled Yes □ No □		Old Well To Be Conve		Casing Test Yes D	No Date during W.O.
Depth-Base Lowest Known	NO	Does Injection Zone C			State What
Fresh Water Within ½ Mile	USDW	Oil-Gas-Fresh Water	Within ½ Mile YES 🖄	NO 🗆	Oil-Gas-Water
Location of Walker	r Hollov	Field	Geologic Name(s)		
Interestor Course (a)	ced Wate		and Depth of Source	(•) Green l	River 4600'-5350'
Geologic Name of Green	River '	'H", "J","K",	Depth of Injection		
a. Top of the Perforated Inter			Interval 4691		
a. Top of the Perforated Infer	val: 4691	Ny Base of Fresh	Water: C. II	tervening Thickn	N/A
Is the intervening thickness so without additional data?	officient to st		protected YES NO		
Lithology of Intervening Zone	* N/A				
Injection Rates and Pressures	II/ A				
Injection Karos and Pressures		Maximum 800			B/D
					PSI
The Names and Addresses of	Those to Wh	om Notice of Applicatio	n Should be Sent.		
Exxon Company,	U.S.A.		Luff Explor	ation Co.	
P. O. Box 120			. 1580 Lincol		te 850
Denver, Colorad	lo 80201		Denver, Col	orado 802	203
,			Deliver, 001	orado ooz	
			000	1 () (-	
)	Paul (Beite	glio .
State of Wyoming)	Paul (Berter Appli	
State of Wyoming County of Natrona Before me, the unde	rsigned au	othority, on this da	y personally appea	red Paul	C. Bertoglio
State of <u>Wyoming</u> County of <u>Natrona</u> Before me, the unde known to me to be the periods	erson who	se name is subscrib	y personally appea	red Paul	C. Bertoglio being by me duly sworn o
State of <u>Wyoming</u> County of <u>Natrona</u> Before me, the unde known to me to be the periods	erson who uly author	se name is subscrib ized to make the c	y personally appea	red Paul	C. Bertoglio
State of <u>Wyoming</u> County of <u>Natrona</u> Before me, the unde known to me to be the property of	erson who uly author port is true	se name is subscrib ized to make the c and correct.	y personally appea ed to the above in above report and t	red Paul strument, who hat he has kr	C. Bertoglio being by me duly sworn on nowledge of the facts state
State of <u>Wyoming</u> County of <u>Natrona</u> Before me, the unde known to me to be the poot oath states, that he is ditherein, and that said re	erson who uly author port is true	se name is subscrib ized to make the c and correct.	y personally appea ed to the above in above report and t	red Paul strument, who hat he has kr	C. Bertoglio being by me duly sworn on nowledge of the facts state

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

- 1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.
- 2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
- 3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
 - 4. Attach Electric or Radioactivity Log of Subject well (if released).
- 5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
- 6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
- 7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
- 8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
- 9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
- 10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
 - 11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
- 12. For enhanced recovery projects, information required by Rule 1-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STR	ING SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	10.75	515	375	Surface	Cement circulated to the surface
Intermediate					
Production	7	5798	360	4125'	CBL
Tubing	2 7/8"	4625'			f Tubing Packer -4050 , 4800', 5285'
Total Depth 5800	Geologic Name - Ir Green River	nj. Zone Dep	th - Top of Inj. Ir 4691'		h - Base of Inj. Interval

(Revised 1983)

(To be filed within 30 days after drilling is completed)

CO	
FASI	

DF	PARTMENT	OF NATURAL	RESOURCES	AND	ENERG

640 Acres N										
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_	-	ļ —		_				E		

API NO 43-047-0558 DIVISION OF OIL, GAS, AND MINING Room 4241 State Office Building Salt Lake City, Utah 84114

COUNTY Vintah SEC. 10 TWP. _ 25 RGE, 23E COMPANY OPERATING Energy Reserves Group, Inc. OFFICE ADDRESS P. 0. Box 3280 town Casper

DRILLING STARTED 12-1619 63 DRILLING FINISHED 1-2 19 64 DATE OF FIRST PRODUCTION 2-3-64 COMPLETED 1-19-64

WELL LOCATED SW SW

FT. FROM SL OF 1/4 SEC. & 500 FT. FROM WL OF 1/4 SEC. ELEVATION DERRICK FLOOR _5121 GROUND 5110

and Outline Lease TYPE COMPLETION

Locate Well Correctly

Single Zone

Multiple Zone Comingled .

LOCATION EXCEPTION

OIL OR GAS ZONES

Name	From	To	Name	From	To
Green River	4689	4728			
Green River	5214	5263			
Green River "K"	5298	5346			

CASING & CEMENT

Casing Set				Csg. Test		Cemen	nt
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Тор
10.75	32.75	H-40	515	1000	375	397.5ft ³	Surface
7	20&23	J-55	5798	*	360	453.6ft ³	4125
* NO RE	CORD OF	CASING	BEING TES	TED DURI	NG COM	PLETION.	AS STATED
IN APPL	CATION	CASING	WILL BE	TESTED T	2500	PSI DUR	ING CLEAN-
DUT AND	WORKOV	ER.					* . *

TOTAL DEPTH	<u>5800'</u>	_
-------------	--------------	---

PACKERS SET DEPTH .

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION	&	TEST	DATA	BY	PRODUCING	FORMATION
		_				_

		2	3 ,
FORMATION	Green River	Green River	Green River .
SPACING & SPACING ORDER NO.	40 acre	40 acre	40 acre
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery	Enhanced Recovery	Enhanced Recovery
PERFORATED	4693	5216	5301
	4800	5232	5319
INTERVALS		5242	5335
		5259	5340
ACIDIZED?	500 gal. 7 1/2% HCL	500 gal. 7 1/2% HCL	500 gal. 7 1/2% HCL
FRACTURE TREATED?	15,000 gal Ashley Crude w/15,000# —	20,000 gal Crude w/ 20,000# 10-20	20,000 gal Ashley Crude w/20,000#
INITIAL TEST DATA	10-20 Sand Sand 10-20 S All Zones Tested Together		
Date	3-13-64		
Oil, bbl./day	143		
Oil Gravity	24.5°		
Gas, Cu. Ft./day	Not guaged CF	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	N/A		
Water-Bbl./day	135	7	
Pumping or Flowing	Kobe Pump		
CHOKE SIZE	N/A		
FLOW TUBING PRESSURE	N/A		

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

Telephone (307) 265-7331 Paul C. Bertock

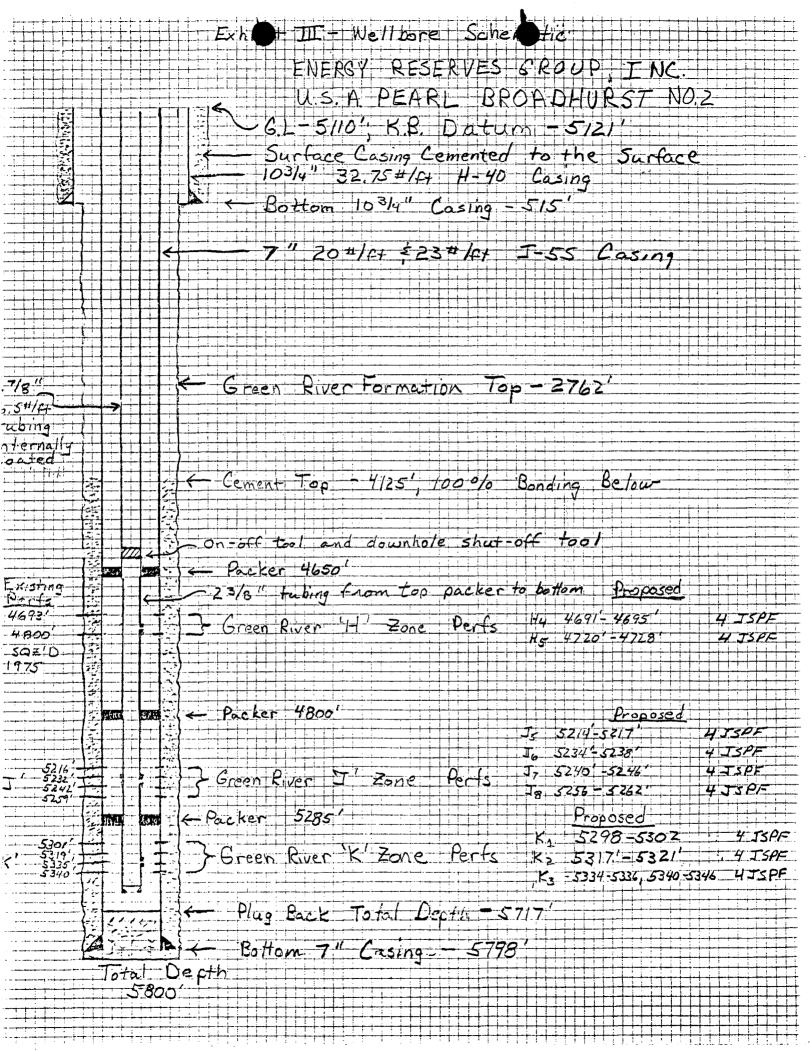
Name and title of representative of company

Date:_____10-22-84

(SEE BACKSIDE OF PAGE)

FORMATIONS DRILLED THROUGH

FORMATIONS	LOG TOP
Green River	27621
Green River "H" zn.	4600'
Green River "I" zn.	4810'
Green River "J" zn.	5124'
Green River "K" zn.	5271'
Wasatch	5728'



Exhibit_IV -- Down Hole Assembly WELL PROFILE A DIVISION OF BAKER OIL TOOLS, INC. OPERATOR __ E R G CASING LINER 3 WELL # Pearl Broadherst #2 SIZE _7" 2-7/8 2-3/8 FIELD Walker Hollow WEIGHT20-23 6.5 4.7 GRADE _____ STATE ____litah THREAD ______ DEPTH ____ DATE _____08-16-84 □ NEW COMPLETION XXWORKOVER **EQUIPMENT AND SERVICES** ESTIMATE NO. 2-7/8 EU 8rd tubing to surface Baker size 47B4 model FH Hydrostatic set single string casing packer w/ 2-7/8 EU 8rd Box x 2-3/8 EU 8rd pin 4800w/ TK-69 Int & Ext Set at 4650' Side pocket mandrel to accomodate injection valve Size 2-3/8 Shear out safety joint w/ TK-69 INT & EXT Baker size 47B4 model FH Hydrostatic set single string casing packer w/ TK-69 INT & EXT set at 5150' 6 Side pocket mandrel to accomodate injection valve Size 2-3/8 Shear out safety joint w/ TK-69 INT & EXT Baker size 47B4 model FH Hydrostatic set single string casing packer w/ TK-69 INT & EXT set at 5280' 5285'-9 Side pocket mandrel to accomodate injection valve Baker size 1.812 model R non-ported seating nipple w/ 2-3/8 EU 8rd box x pin stainless steel Run all equipment into hole, spacing out between the packers with INT & EXT coated tubing joints and subs. At each connection, check wrench and tong marks and reapply TK-69 coating. At setting depth, space out packers and install well head. Drop RB-2 standing valve. Apply surface pump pressure to set FH packers. Once packers are set, the dummy valves in the side pocket mandrels can be pulled and the injection valves 11installed. It is suggested that PLS (Production Logging Service) from Vernal, Utah pull the dummies and install the injection valves. PLS doing all of the running and pulling of injection valves for Chevron in the Rangely and Red Wash areas. The shear SEE PAGÉ ? PREPARED BY OFFICE . PHONE

Exhibit 1V - Continued WELL PROFILE PACKERS A DIVISION OF BAKER OIL TOOLS, INC. CASHIG OPERATOR __ E R G LINER WELL # Pearl Broadherst #2 Walker Hollow SIZE FIELD WEIGHT Uintah COUNTY GRADE ____ Utah STATE THREAD 08-16-84 DEPTH ___ DATE □ NEW COMPLETION X X WORKOVER EQUIPMENT AND SERVICES ESTIMATE NO. PAGE 2 out safety joints are installed to facilitate pulling of the FH packers. Experience has shown that when injecting, a build up fines and debris can occur on top of the FH packers. This can cause problems when retrieval is attempted. With the shear out safety joints in place, if the FH packer can't be shear released the safety joints will shear. As each packer is pulled, run back into hole, wash over the neck of the safety joint and pull the FH. The RB-2 standing valve can be equalized and pulled on slick line. Injection valves cost per valve 655.00 11 RB-2 standing valve PHONE PREPARED BY OFFICE



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 21, 1984

Newspaper Agency Legal Advertizing 143 South Main Mezzanine Floor Salt Lake City, Utah 84111

RE: UIC-047

Gentlemen:

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 4th day of December. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours, DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON

Administrative Assistant

EXHIBIT V - DEVIATION SURVEY

DEPTH	DEGREES	OF DEVIATIONS
516'		3/4°
870'		1°
1292'		1°
1635'		1°
1970'		3/4°
2141'		1°
2849'		1°
3127'		1 1/4°
3267'		1 1/2°
3382'		1 3/4°
3582'		1 1/2°
3765'		1°
4078'		1°
4228'		1°
4572'		1°
4993'		1°
5127'		3/4°
5358'		1°
5591'		1°
5800'		1 1/4°

Exhibit VI -- Frac Gradients

	R	23E	
	13 9 0.67	9.84 8	8.64
· 9 — —	0.68	200.69 6.69 16 80.61	17 261 ———————————————————————————————————
<u>.</u> .			0.68

WELL NO. FRACTENT, PSI/FT Note: All well are on Energy Reserves Broup, Inc.'s U.S.A. Rearl Broadhurst Lease.

CORE LABORATORIES, INC. ANALYTICAL REPORT

LAB #: W40684~2

DATE: 14-AUG-84

OPERATOR: ENERGY RESERVES GROUP

WELL #: PEARL BROADHURST

FIELD: WALKER HOLLOW

COUNTY: UINTAH

STATE: UTAH

LOCATION:

FORMATION:

INTERVAL:

SAMPLE ORIGIN: INJECTION PUMP DISCHARGEREMARKS: SAMPLE TAKEN 7-19-84

Total suspended solids, mg/l --- 136

C1

CATIONS	MG/L	REG/L	ANIONS	MG/L	MEQ/L
**************************************	*	**********		********	** *** *** *** ***
SODIUM	1848	80.38	SULFATE	21	0.44
POTASSIUM	ኇ	0.23	CHLORIDE	2000	56.40
CALCIUM	3	0.15	CARBONATE	60	2.00
MAGNESIUM	1	0.08	BICARBONATE	1342	22.01
			HYDROXIDE	0	0.00
TOTAL.	CATIONS	= 80.84	TOTAL.	ANIONS =	80.84

10 Na

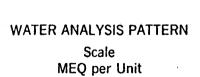
CALCULATED TDS MG/L = 4603 NACL EQUIVALENTS MG/L = 4314

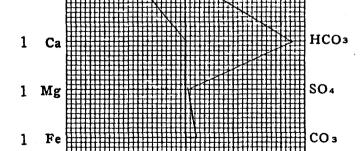
OBSERVED PH = 8.8

SPECIFIC RESISTANCE AT 68F (OHM-M):

OBSERVED = 1.49

CALCULATED = 1.48





(Na value in above graph includes Na and K)

NOTE: Mg/1 = milligrams per liter

Meq/1 = milligram equivalent

per liter

Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC. **ANALYTICAL REPORT**

LAB #: W40684-3

DATE: 14-AUG-84

OPERATOR: ENERGY RESERVES GROUP

WELL #: PEARL BROADHURST

FIELD: WALKER HOLLOW

COUNTY: UINTAH

STATE: UTAR

LOCATION:

FORMATION:

INTERVAL:

SAMPLE ORIGIN: INJECTION PUMP DISCHARGERENARKS: SAMPLE TAKEN 7-20-84

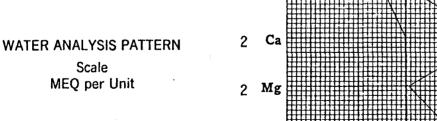
Total suspended solids, mg/l

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
			*** *** *** *** ***	*********	
SODIUM	1310	78.73	SULFATE	26	0.54
POTASSIUM	10	0.26	CHLORIDE	840	23.69
CALCIUM	3	0.15	CARBONATE	600	19.98
MAGNESIUM	1	0.08	BICARBONATE	2135	35.01
			HYDROXIDE	0	0.00
TOTAL.	CATIONS =	79.22	TOTAL.	ANIONS =	79.22

CALCULATED TDS MG/L = NACL EQUIVALENTS MG/L = 4015 OBSERVED PH = 8.8

SPECIFIC RESISTANCE AT 68F (OHM-M): OBSERVED = 1.72

CALCULATED = 1.58



2

20 Na

(Na value in above graph includes Na and K)

NOTE: Mg/1 = milligrams per liter

Meg/1 = milligram equivalent per liter SO₄ Sodium chloride equivalent = by Dunlap & Hawthorne CO₃ Fe calculation from components

Ci

HCO₃

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitableness of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon.

Exhibit TI - Lithologica Description

LITHOLOGY

- 2,800 2,820 80% SHALE yel, lt gn, gy, rdorng, sft-frm, sbblky, n-mod slty, occ sme vf sd, tr mica, grdg to gy SLTST, arg, sdy, NSOFC.

 20% SANDSTONE gy, frm-hd, m-c gr, sbrd-sbang, n-sl arg, sme mica, sme fr-g Ø, NSOFC.
- 2,820 2,860 70% SHALE var col, sft-frm, sbblky-sbfis, n-mod slty, tr mica, tr BENT.

 10% SILTSTONE gy spec, blk, frm-hd, arg, occ sme vf-f gr sd, NSOFC.

 20% SANDSTONE gy, wh-clr, frm-hd, f-c gr, sbang-sbrd, p srt, occ qtztc, sme fr Ø, NSOFC.
- 2,860 2,880 90% SHALE yel gn gy brn-rdbrn, sft, sbblky, n-sl slty, tr mas PYR, tr BENT.

 10% SANDSTONE gy-clr, frm-hd, f-c gr, ang-sbrd, p srt, occ qtztc, sme calc mtx cmt, gen p Ø, occ fr intgr Ø, NSOFC.
- 2,880 2,900 70% SHALE var col, yel gn gy brn, sft-frm, sbblky, n-sl slty.

 Tr SILTSTONE gy-wh, frm-hd, arg, occ sme vf gr sd, NSOFC.

 30% SANDSTONE gy-wh-clr, frm-hd, f-c gr, ang-sbrd, p srt, occ qtztc, sil cmt, occ calc mtx cmt, n-sl arg, occ sl slty, gen n-p Ø, occ fr intgr Ø, NSOFC.
- 2,900 2,920 10% CHERT lt-m gy, v hd, sil.
 20% SANDSTONE gy-clr-wh, frm-hd, f-c gr sbrd-sbang,
 mod srt, occ calc mtx cmt, occ qtztc, gen n-p Ø,
 occ slty, n-v sl arg, NSOFC.
 10% SILTSTONE gy, frm, arg, sme vf sd, n Ø, NSOFC.
 60% SHALE var col, sft-frm, occ slty, gen a/a.
- 2,920 2,940 70% SHALE brn gy gn yel, sft, sbblky, n-mod slty, occ sl calc, tr BENT, gygn, sft, amor.
 20% SANDSTONE gy wh-clr, frm-hd, m-c gr sbang-ang, mod w srt, occ calc cmt, gen n mtx cmt, p-occ fr Ø, NSOFC.
 10% SILTSTONE gy, frm, arg, sme vf gr sd, occ sl calc, n Ø, NSOFC, tr mas-xln PYR.
- 2,940 2,980 40% SANDSTONE wh-clr, occ gy, frm-hd, f-c gr sbrd-sbang, p-mod w srt, gen n mtx cmt, occ calc-sil cmt, sme p-fr Ø, occ slty-sl arg, NSOFC.
 60% SHALE orng-rdorng yel gy-gn, sft, sbblky, a/a.
 Tr BENT.
 Tr mas PYR.
- 2,980 3,000 60% SANDSTONE wh-clr, occ gy, frm-hd, f-c gr, sbrd-ang, mod w srt, sl-mod slty, occ mod arg, sme calc mtx cmt, gen n-p Ø, occ fr Ø, NSOFC.

 40% SHALE var col, sft, sbblky-sbfis, sl-mod calc, n-sl slty.

- 3,000 3,020 50% SANDSTONE clr-wh-gy, frm-hd, f-m gr, rd-sbang, occ c gr sbrd-sbang, mod w srt, calc mtx cmt, gen n-p Ø, NSOFC.

 50% SHALE yel gy gn orng-rdorng, sft, sbblky-sbfis, sl-mod calc, n-sl slty.
- 3,020 3,040 30% SILTSTONE gy, frm-hd, v arg, occ sme vf sd, sil.
 20% SANDSTONE gy, frm-hd, vf-f gr w srt gen qtztc,
 occ sme calc mtx cmt, n arg, n-p Ø, NSOFC.
 50% SHALE orng gy yelgn, sft, sbblky-sbfis, n-sl
 slty, n sdy, sl-mod calc.
- 3,040 3,060 10% SANDSTONE gy wh, occ pk, frm-hd, vf-f gr w srt, sme calc mtx cmt, gen n-p Ø, n-sl arg, sl slty, NSOFC.

 30% SILTSTONE lt-m gy, sft-hd, sme vf gr sd, arg, sl-mod calc, occ sil, NSOFC.

 60% SHALE var col m gy, sft-hd, sbblky-sbfis, n-sl slty, sl-mod calc, occ mod sil, tr PYR.
- 3,060 3,080 40% SILTSTONE lt-m gy, frm, occ sdy, arg, sl-mod calc, occ sil, tr lt gybrn, dif-dk brn tar dd o stn, NFOC.

 10% SANDSTONE gy-wh, frm-hd, vf-m gr, mod w srt, occ slty, n-p Ø, occ fr intgr Ø, NSOFC.
 50% SHALE var col, brn-orng, sft, gen a/a.
- 3,080 3,140 20-30% SILTSTONE m gy, frm, occ sdy, v arg, sl-mod calc, occ sil, tr gybrn tar, NFOC.

 10-30% SANDSTONE wh-clr, occ gy, frm-hd, f-m gr sbang-sbrd, mod w srt, n-v sl arg, occ slty, sme calc mtx cmt, gen n-p Ø, NSOFC.

 50-60% SHALE yel gy gn orng-brn, sft, sbblky, occ mod slty, n sdy, sl-mod calc.
- 3,140 3,280 90-95% SHALE yel orng, gy-gybrn-brn, sft-hd, sbblky, occ slty, sl-mod dol, calc, occ tr dd brn o stn.

 5-10% LIMESTONE crm, gybrn-brn, frm-hd, micxln, micrite, n-sl slty, occ sl arg, occ sl dol, n-vp Ø, NSOFC.
- 3,280 3,320 30-50% SHALE wh-lt gy-gn orng-rdbrn yel, sft, sbblky, n-v sl slty occ tr vf-f gr sd, sl-mod calc.
 40-50% SILTSTONE lt-m gy, frm-hd, arg, n-sl sdy, sl-mod calc, occ sil, n Ø, NSOFC.
 10-20% SANDSTONE lt gy, frm-hd, vf-f gr w srt, tt, qtztc, occ calc cmt, gen p Ø, tr m gy-lt gybrn dif o stn, g-exc yelgn-gol flor occ dul yel dif flor, occ stng yelgn dif-stmg cut, sme/NC.
- 3,320 3,340 40% SANDSTONE wh-lt gy, occ clr, frm-hd, vf-c gr sbang-sbrd, mod w srt, occ sl slty, occ sl arg, gen p-occ g Ø, tr ltgy-lt brn dif o stn-dd o stn.
 50% SHALE var col brn, sft, sbblky-fis, occ sl slty, mod calc-dol, occ sil, tr dd brn o stn.
 10% LIMESTONE brn-gybrn, frm-hd, micxln, micrite, arg, occ sl sil, n Ø, tr dd brn o stn. NFOC.

- 3,340 3,360 90% SHALE orng gn-gy yel brn, sft-hd, sbblky-sbfis, mod calc-dol, occ slty, occ sil.
 10% SILTSTONE dk gy, frm-hd, arg, mod calc-dol, occ sil, NSOFC.
- 3,360 3,380 20% SILTSTONE gy, frm-hd, arg, calc-dol, n Ø, tr
 lt gy dd o stn, occ vf sd grdg to slty SS, qtztc/n Ø.
 l0% LIMESTONE gy-gybrn-brn, frm, micxln, micrite,
 sl-mod arg, sl-mod dol, n intxln Ø, tr gybrn-brn dd o
 stn, NFOC.
 70% SHALE orng-brn-gybrn-lt gy, sft-hd, occ mod
 slty, sl-mod calc-dol, occ sil, tr dd o stn.
- 3,380 3,400 70% SHALE var col gy brn, sft-hd, gen a/a.
 10% SILTSTONE gy, frm-hd, arg, occ sdy, sl-mod calc,
 occ sil, n Ø, NSOFC.
 20% SANDSTONE gy-gybrn-brn, frm-hd, vf-f gr w srt,
 qtztc, occ sl calc, sl arg-sl slty, gen n-vp intgr Ø,
 tr dd brn o stn, wk flor, NC.
- 3,400 3,460 20% SANDSTONE lt-m brngy, hd, f-m gr sbang-sbrd, w srt, occ arg, sl slty, fr-exc Ø, g-exc dul gol flor, vg-exc yelgn dif-strg stmg cut.
 20-30% SILTSTONE gy-gybrn, frm-hd, arg, occ sdy, occ fr Ø, sme fr-g dul gol flor, wk yelgn dif-stmg cut, gen NFOC.
 50-60% SHALE orng-brn gy, sft-hd, occ slty, occ sil, sl-mod calc-dol, tr dd brn o stn.
- 3,460 3,520 60-90% SHALE var col, gygn orng-rdbrn, sft-hd, sbblkyfis, occ slty, sl-mod calc, occ fr dd o stn, NFOC.

 10-40% SILTSTONE brn-gybrn-gy, frm-hd, arg, fr-vg difptchy brn o stn, ptchy-dif bri-dul yel flor occ wk dul
 yelgn stmg-wk dif cut, occ sdy grdg to slty SS, gy-brn,
 vf-m gr mod w srt, p-g Ø, fr-g brn dif o stn, ptchydif flor, occ wk yelgn stmg cut.
- 3,520 3,620 40-60% SILTSTONE gy-gybrn, frm-hd, v arg, vf-f gr, sd, sl calc mtx, occ sil, gen n-p Ø, tr lt brn-brngy dif-ptchy dd o stn.

 20-30% SHALE brngy orng yel gygn, sft-frm, sbblky, occ slty, sl-mod calc-dol, occ sil.

 10-20% SANDSTONE lt-m brn, lt gy, frm-hd, vf-m gr, sbang-rd, w srt, occ slty-arg, sil-qtztc, tt occ calc mtx, gen n-vp Ø, occ fr-g intgr Ø, occ fr brn dif-dd o stn, occ dul yelgn flor, occ stng yelgn stmg-wl dif cut, gen NFOC.
- 3,620 3,720 10-40% SILTSTONE lt-m gy-gybrn, frm-hd, arg, sdy, sl-mod calc, occ sil, n Ø, NSOFC.

 40-70% SHALE gn gy yel crng-brn, sft-frm, sbblky sl calc-dol, occ sil.

 20% SANDSTONE wh-crm lt gy, hd, vf-f gr w srt, slty-arg, occ calc-dol mtx, sil-qtztc, tt, gen n Ø, n-tr lt gybrn dd o stn, tr dul flor, NC.

3,860 - 3,900

- 3,720 3,760 10-40% SANDSTONE wh-lt gy, frm-hd, vf-f gr, sbang-rd w srt, occ slty-arg, gen cln, occ calc mtx, gen frexc Ø, occ n-p intgr Ø, NSOFC.

 40-50% SHALE gn gy orng brn yel, sft-frm, sbblky, occ sl slty, occ calc-dol, occ sil.

 10-20% DOLOMITE brn-gybrn, hd, micxln, mod-v arg, calc, n Ø, NSOFC.

 10% LIMESTONE wh-gy-gybrn-tan, sft-hd, micxln, micrite, arg, dol, n Ø, NSOFC.
- 3,760 3,800 Tr-10% SANDSTONE wh ltgybrn-brn, frm-hd, vf-m gr, mod w srt, occ arg-slty, occ sl dol mtx, n-exc Ø, occ fr lt brn dif o stn, occ dul yelgn dif flor, occ wk yelgn stmg-dif cut, gen NSOFC.

 20-30% DOLOMITE m gy-gybrn-brn, hd, micxln, arg, occ slty, mod calc, n Ø, occ tr dd brn o stn, NFOC.

 10% SILTSTONE m gy-gybrn, frm-hd, arg, sdy, calc mtx, occ sil, n Ø, tr dd brn o stn, occ dul yel flor, NC.

 45-50% SHALE gy-gn orng mot yel brn, sft-hd, sbblky occ slty, occ calc-dol, occ dd o stn, NFOC.
- 3,800 3,840 Tr-10% SANDSTONE wh-lt gy, hd, f-c gr sbang-rd, w srt, n-sl arg, n slty, cln, occ sl calc, g-exc intgr Ø, NSOFC.

 Tr-10% SILTSTONE gy-gybrn, frm-hd, arg, sdy, calc mtx, occ sil, n Ø, tr dd o stn, NFOC.

 60-70% SHALE var col, sft-hd, sbblky, occ slty, sl-mod calc.

 20-30% DOLOMITE brn-tan-gybrn, hd, micxln, arg, calc, n Ø, tr dd brn o stn, occ dul flor, NC.
- 3,840 3,860 98% SANDSTONE wh-clr, hd, f-m gr sbang-rd mod w srt, n arg, n-sl slty, sl-mod calc, fr-exc intgr Ø, NSOFC.
- slty, sl-mod calc, n Ø, NSOFC.
 50-70% SHALE yel orng rdbrn gy gn, sft-hd, sbblky
 occ sil, occ slty, sl-mod dol-calc, NSOFC.
 10-20% SANDSTONE wh-lt gy, frm-hd, f-m gr, sbang-sbrd,
 mod w srt, sl arg-slty, sl-mod calc-dol, p-vf intgr Ø,
 NSOFC.
 10-20% SILTSTONE lt-m gy-gybrn tan, frm-hd, arg, sme
 vf sd, sl-mod dol-calc, occ sil, n Ø, occ dd o stn, NC.

Tr-20% DOLOMITE - qy-qybrn, hd, crp-micxln, v arg, occ

3,900 - 3,920 20% SANDSTONE - wh-lt gy clr, hd, vf-m gr, sbang-rd, w srt, sl-mod arg-slty, mod calc, occ sil, tt, sme g-exc Ø, NSOFC.

10% SILTSTONE - lt-m gy, frm-hd, arg-sdy, calc-dol, NSOFC.

50% SHALE - var col, sft-frm, sbblky, calc-dol, occ slty.

20% LIMESTONE - lt brn-tan occ gybrn, frm-hd, micxln, micrite, sl-mod dol, arg, n Ø, NSOFC.

- 3,920 4,000 SHALE var col, sft-hd, blky-sbblky, calc-dol, occ slty grdg to SLTST.

 SANDSTONE wh-gy, hd, vf-f gr sbang-sbrd, mod w srt occ fri, occ calc, sme cht, sme pyr, gen p-occ vg Ø, NSOFC.
- 4,000 4,060 10% LIMESTONE tan-lt brn, frm-hd, vf-micxln, micrite, arg, dol, n Ø, NSOFC.

 30-80% SHALE gy-gygn yel orng, sft-frm, sbblky-sbfis, occ slty, calc-dol.

 20-50% SANDSTONE wh-ltgy clr, frm-hd, vf-m gr sbang-rd, mod w srt, occ fri, sl arg-slty, sl-mod calc, occ exc Ø, NSOFC.

 Tr-10% LIMESTONE tan, lt brn-buff, frm-hd, vf-micxln, micrite, arg, occ dol, n intxln Ø, NSOFC.

 Tr-10% SILTSTONE lt gy-gybrn-tan, frm-hd, arg, occ sdy, sl-mod calc-dol, occ sil, NSOFC.
- 4,060 4,120 10% SANDSTONE tan-ltbrn gy wh, frm-hd, f gr sbang-sbrd, w srt, arg slty, sl-mod calc, gen n-vp Ø, occ fr-g intgr Ø, sme fr lt brn dif o stn, dull yelgn dif flor, stng yelgn stmg-stng yelgn dif cut.

 10-40% LIMESTONE gy-gybrn, frm-hd, crp-micxln, micrite, arg, sl-mod dol, n in xln Ø, sme fr dd o stn, NFOC.

 20-60% SHALE var col, sft-frm, sbblky, occ slty, calc-dol, tr dd brn o stn, NFOC.

 15-30% SILTSTONE m gy-gybrn, tan, frm-hd, arg, calc, n Ø, tr dd o stn, tr dul yelgn flor, n cut.
- 4,120 4,140 10% LIMESTONE lt gybrn-tan-buff, hd, crp-micxln, micrite, arg-slty, sl dol, n intxln Ø, NSOFC.

 20% SILTSTONE gy-gybrn, frm-hd, arg, calc, n Ø, NSOFC.

 70% SHALE yel rdorng-brn gy-gn, sft-frm, a/a.
- 4,140 4,300 Tr-25% LIMESTONE lt-m brn buff-tan gybrn, hd, vf-mic xln, micrite, arg, dol, gen n-p Ø, occ sme fr gybrn dd o stn, occ dul-bri yelgn flor, NC.

 Tr-20% SANDSTONE gy-gybrn, lt brn-buff, hd, vf-f gr, w srt, arg-slty, calc, occ fr intgr Ø, gen tt, occ dd o stn, sme fr dul-bri yelgn flor, n cut.

 40-88% SHALE var col, sft, n-mod slty, calc occ dol, sbblky-sbfis, occ s plty.
- 4,300 4,340 10-20% SANDSTONE lt brn-buff-gybrn-lt gy, sft-hd, vf-f gr sbang-sbrd w srt, occ arg-slty, calc-dol mtx cmt, gen fr-exc intgr Ø, occ tt-qtztc, fr-g lt brn dif o stn, sme g yelgn dif-ptchy flor, occ stng bri yelgn stmg-stng dif cut.
 50-60% SHALE yel orng-rdbrn gy-gn, sft-frm, sme sl slty, calc-dol, NSOFC.
 10-20% LIMESTONE buff-brn gybrn lt gy, frm-hd, vf-mic xln, arg-slty, n-vp intxln Ø, g brn dif-strk dd o stn, occ dull yelgn flor, n cut.
 10-20% SILTSTONE lt-m gy gybrn-brn, arg-sdy, calc-dol, tt, fr-g brn dif dd o stn, occ g dif flor, n cut.

- 4,340 4,400 10% LIMESTONE buff, lt gy-gybrn, frm-hd, micrite, arg, occ slty, n-p Ø, occ lt brn dif o stn-dk brn tar, sme dul yelgn flor, occ wk dif cut.

 Tr-10% SANDSTONE wh-clr-lt gy, vf-f gr, arg-slty, calc-dol, occ tt, gen g-exc intgr Ø, occ lt brn dif dd o stn, tr flor, NC.

 10-30% SILTSTONE m gy-gybrn, brn-tan, frm-hd, arg sl-mod sdy, tt, calc-dol, occ fr-g lt brn dif dd o stn, NFOC.

 55-70% SHALE var col, sft-frm, sme sl slty, calc, occ sl dol, tr tar strk, NFOC.
- 4,400 4,440 20% LIMESTONE buff-tan, lt brn, hd, micrite, sl-mod arg, sl dol, n Ø, occ mnl flor, NSOC.

 10% SANDSTONE wh-lt gy, frm-hd, vf-f gr, w srt, arg-slty, calc-dol, v occ brn dif o stn, v dul yelgn flor, stng yelgn dif cut.

 10% SILTSTONE gy-gybrn, brn-tan, arg, occ sdy, tt, calc-dol, occ dd o stn, NFOC.

 60% SHALE yel-orng, rdbrn-brn, gy gn, sft-frm, calc, occ tar strk, NFOC.

 Tr CHERT clr, hd.
- 4,440 4,460 Tr COAL blk, sft, sl vit.

 10% LIMESTONE tan-lt brn-buff, occ gybrn, frm-hd,
 micxln, micrite, arg, sl dol, n Ø, NSOFC.

 20% SILTSTONE lt-m gy-gybrn, occ tan, a/a.

 20% SANDSTONE wh-clr, lt-m gy, gybrn, frm-hd, vf-f
 gr w srt, arg-slty, calc-dol, occ tt, gen fr-exc Ø,
 occ tr brn dif o stn, NFOC.

 48% SHALE var col, sft-frm, sbblky-fis, occ slty-sdy,
 calc, tr tar strk, NFOC.
- 4,460 4,490 Shaker bypassed for repair no samples.
- 4,490 4,520 20-30% SANDSTONE wh-lt gy-clr, occ gybrn, frm-hd, f gr sbang-sbrd, w srt, sl-mod arg-slty, qtztc, calc, gen tt, occ exc Ø, tr dd o stn, NFOC.

 10-20% SILTSTONE lt-m gy, gybrn-brn tan-buff, frm-hd, arg-sdy, sl-mod calc, tt, tr dd o stn, NFOC.

 10-20% SANDSTONE wh-lt, clr-v lt brn, frm-hd, vf-f gr sbang-sbrd, mod w srt, slty-arg, sl-mod calc, gen tt, sme fr-exc Ø, occ lt brn dif dd o stn-strk tar, NFOC.

 50% SHALE orng-rdbrn, yel, gy-gn, sft-frm, sbblky-sbfis, sl slty-occ sdy, calc, NSOFC.

- 4,520 4,600 Tr-10% SANDSTONE wh-1t gy-clr, sft-hd, vf-f gr occ m gr sbang-sbrd, w srt, occ fri, mod calc mtx cmt, arg-slty, calc, occ fr Ø, NSOFC.

 58-78% SHALE yel gy, gn, rdbrn-orng, sft-frm, sbblky-sbfis, occ splty, calc, sl slty-sdy, NSOFC.

 10-20% SILTSTONE buff-tan, lt-m gy, gybrn-brn, sft-hd, arg, occ sme vf sd, calc, n-p Ø, occ brn dif dd o stn, NFOC.
- 4,600 4,700 20-30% SANDSTONE wh-clr, lt gy-lt brn, sft-hd, vf-m gr, sbang-sbrd, mod w srt, occ arg-slty, occ fri, sme fr-exc Ø, occ lt brn o stn, tr wk yelgn flor, tr bri yelgn stmg-dif cut, gen NSOFC.

 10-30% SILTSTONE buff-brn, lt-m gy, sft-hd, arg, occ v sdy, n Ø, occ tr dd o stn, NFOC.

 Tr-10% LIMESTONE buff-lt brn, frm-hd, vf-micxln, micrite, arg-slty, sl dol, n Ø, tr dd o stn, NFOC.

 50% SHALE var col, sft-frm, sbblky-sbfis, calc, occ slty, NSOFC.
- 4,700 4,740 10% SANDSTONE clr lt gy, lt brn, sft-frm, f gr sbang, w srt, n-sl arg-slty, n-sl arg-slty, n-sl calc, fr exc Ø, lt brn dif o stn, exc bri yel dif flor, stng yelgn stmg-dif cut.

 Tr-10% LIMESTONE wh-crm brn, sft-frm, occ hd, micxln, micrite, n-sl arg, occ sl dol, n-tr intxln Ø, occ fr lt gybrn dif o stn, exc yelgn diff flor, wk yelgn-blgn stmg-stng dif cut.

 30% SILTSTONE brn lt-m gy yel var col, frm-hd, arg, occ v sdy, sl calc, tt, occ sme g lt-m brn dif dd o stn, NFOC.

 50-60% SHALE var col, sft-frm, sbblky, occ slty, sme v calc, NSOFC.
- 4,740 4,760 10% SANDSTONE lt brn, lt gy, clr-wh, sft-hd, vf-f gr, mod-w srt, occ v arg-slty, calc mtx cmt, occ qtztc, tt, sme fr-exc Ø, sme lt brn dif-ptchy o stn, sme fr-exc yelgn dif-ptchy flor, wk stmg-dif cut.

 20% SILTSTONE lt-m gy, rdbrn-brn, frm-hd, arg sme sdy, sl calc, occ sil, tt, occ tr dd o stn, NFOC.

 70% SHALE yel gy-gn rdbrn-orng buff-tan, sft-frm, occ slty, occ sdy, mod calc, tr dk brn strk dd o stn, NFOC.

- 4,760 4,780 70% SANDSTONE lt gy-wh, occ clr, frm-hd, f gr w srt, arg-slty, calc mtx cmt, p intgr Ø, n-tr lt gy o stn, occ fr yelgn flor, v wk dul yel dif-resid cut.

 Tr LIMESTONE wh-crm, micrite, n arg, occ sl slty, sl dol, n Ø, NSOFC.

 28% SHALE var col, sft, gen a/a.
- 4,780 4,800 50% SANDSTONE clr, lt gy, occ wh, frm-hd, vf-f gr, sbang-sbrd, mod w srt, arg-slty, calc mtx cmt, gen n Ø, occ sme fr-g intgr Ø, occ fr lt gy dif o stn, occ tr yelgn ptchy flor, NC.

 10% SILTSTONE lt-m gy gybrn, frm-hd, arg, occ sdy, sl calc, tt, tr dd o stn, NFOC.

 40% SHALE rdbrn-orng, yel, gy-gn, sft-frm, sbblky-fis, occ slty, calc, NSOFC.
- 4,800 4,900 10-30% SANDSTONE clr, lt gy, occ lt brn, frm-hd, vf-f gr w srt, slty-arg, calc mtx cmt, gen tt, p intgr Ø, n-tr dd o stn, NFOC.

 10-30% SILTSTONE lt gy-gygn, occ lt gybrn, frm-hd, arg, occ sdy, sl calc, tt, occ tr mnl flor, NSOC.

 48-68¢ SHALE var col, sft-frm, a/a.

 Tr LIMESTONE lt-m gy brn-buff, frm-hd, micxln-ooltc, micrite, arg, sl dol, n-vp intxln Ø, NSOFC.
- 4,900 4,960 10-40% SILTSTONE gy-gygn, gybrn-brn-buff, frm-hd, arg, occ sdy, sl-mod calc, tt occ strk-ptchy tar, NFOC.

 10% SANDSTONE wh-lt gy clr, frm-hd, vf-f gr cons w srt, sl slty, arg, n-sl calc, n-vp Ø, occ tr dd o stn, NFOC.
- 4,960 5,000 20-40% SILTSTONE lt-m gy, gybrn-brn-buff, sft-frm, arg, ccc sdy, sl-mod dol, NSOFC.

 45-55% SHALE var col, sft, sbblky-fis, occ v slty, sl sdy, calc, NSOFC.

 Tr-20% SANDSTONE lt brn, lt gy-clr, frm-hd, vf-f gr, mod w srt, slty-arg, sl calc mtx cmt, occ qtztc, n-fr Ø, occ dif o stn, NF, occ wk dif-resid cut, gen NSOFC.

 Tr-20% LIMESTONE lt brn-tan-buff, occ gy, frm-hd, crp-micxln, micrite, occ ool, arg, occ sl dol, n Ø, NSOC, sme dul yel mnl flor.

- 5,000 5,100 Tr-10% SANDSTONE brn lt gy-gybrn, sft-hd, vf-f gr mod w srt, arg-slty, sl calc, occ fr Ø, tr brn dif o stn, occ dul yelgn flor, tr wk dif yel gn cut.

 20-30% SILTSTONE gy-gybrn-dk brn, frm-hd, arg, occ mod sdy, occ sil, tt, n-vp Ø, fr brn dd o stn, NFOC.

 35-60% SHALE var col, sft, sbblky-fis, occ splty, occ slty, calc, tr tar specs, NFOC.

 10-25% LIMESTONE buff-tan-brn-gybrn, occ clr, frm-hd, crp-micxln, micrite, arg, dol, n Ø, sme ool/calc mtx cmt, tr fr dd o stn, occ mnl flor, n cut.
- 5,100 5,120 10% LIMESTONE tan-buff m gybrn, frm-hd, micrite, a/a.
 20% SILTSTONE brn-tan gybrn, arg, occ sl sdy, sl calc,
 occ sil, tt, fr dd o stn, NFOC.
 70% SHALE var col, sbblky-splty, calc, occ sl slty,
 tr tar specs, NFOC.
- 5,120 5,220 Tr-10% SANDSTONE gy, gybrn, lt brn, occ clr, frm-hd, f gr, sil-qtztc, sl-mod arg, gen n-vp Ø, n-tr dd o stn, NFOC.

 55-60% SHALE gy-gn, buff-brn yel orng, sft-frm, sbblky-sbfis, occ splty, calc, sl-mod slty, occ sme vf sd, NSOFC.

 10-15% LIMESTONE brn-gybrn, frm-hd, micxln, micrite, arg occ slty, sl dol, n intxln Ø, occ fr dd o stn, NFOC.

 20-25% SILTSTONE gy-gybrn-brn, occ buff, sft-frm, arg, sme v sdy, sl calc, sil, tt, sme fr dd o stn, NFOC.
- 5,220 5,230 10% SANDSTONE clr smky gy, frm-hd, vf-f gr cons sbrd -rd, mod w srt, occ fri, sl calc, sme sil mtx cmt, occ f-m gr uncons sbang, NSOFC.

 20% SILTSTONE gy-gybrn-buff, sft-frm, arg, occ v sdy, sl calc, occ sil-qtztc, tt, n Ø, occ blk-brn tar strk-spec, NFOC.

 70% SHALE rdbrn-orng, gy-gn, tan-yel, sft-frm, sbblky-sbfis, occ slty, sme vf sd, calc, NSOFC.
- 5,230 5,270 Shaker down for repair no samples.
- 5,270 5,300 20-30% SANDSTONE clr-wh, lt gy-occ lt brn, hd, vf-m gr, cons, p srt, sme calc mtx cmt, occ sil, arg-slty, occ fri, sme fr-exc Ø, tr brn dif o stn, bri yel dif flor, stng-wk stmg-dif cut.

 50-60% SHALE var col, sft, sbblky-fis, slty, occ sdy, calc, NSOFC.

- 5,300 5,380 50-70% SHALE var col, sft-frm, gen a/a.

 Tr-10% LIMESTONE lt brn-buff, micxln, micrite, arg, n intxln Ø, tr-p brn dd o stn, occ dul gol mnrl flor, n cut.

 10-20% SANDSTONE wh-clr, occ lt brn, vf-f gr cons, mod w srt, sl arg-slty, occ sil-qtztc, sl calc, sme fr-exc Ø, occ fr-g lt brn dif o stn, occ fr ptchy-dif dul gol flor, occ sme stng stmg-dif cut, gen NSOFC.

 10-25% SILTSTONE gy-gybrn, occ var col, sft-frm, arg, occ v sdy, sl-mod calc, occ sil, gen tt, tr gy-gybrn dd o stn, NFOC.
- 5,380 5,420 20% SILTSTONE gy-gybrn, tan-yelbrn-buff, sft-frm, arg sme sdy, sl-mod calc, NSOFC.

 Tr LIMESTONE gy-gybrn, frm-hd, micxln, micrite, arg, n Ø, NSOFC.

 68-78% SHALE var col, sft, sbblky-fis occ splty, calc, sl-mod slty, occ sdy, NSOFC.
- 5,420 5,440 20% SILTSTONE gy-gybrn, sft-frm, arg, occ v sdy, n-sl calc, sme tar specs, NFOC.
 80% SHALE var col, gygn, yel, orng, rdbrn-brn, sft, gen a/a.
- 5,440 5,460 10% SANDSTONE gy-gybrn, brn-clr, vf-f gr, cons p srt, sme calc mtx cmt, occ sil cmt, occ qtztc, p Ø, occ fr dif brn o stn-tar, sme dul yelgn flor, v wk dif cut. 10% LIMESTONE gy brn-gy, brn-buff, crm, crp-micxln, n Ø, fr brn-gybrn dd o stn, tr dul yel mnl flor, n cut. 20% SILTSTONE gy-gybrn-yelbrn, arg sme sdy, sl calc, n-p Ø, fr dd o stn, NFOC. 60% SHALE var col, sft, sbblky-fis, splty, n-mod slty, occ sdy, calc, NSOFC.
- 5,460 5,480 15% SANDSTONE clr, lt brn, wh, hd, vf-f gr, cons, p srt, n-sl arg, n-sl slty, n-sl calc, occ qtztc, gen p Ø, tr lt brn dd o stn, fr yel gn flor, n cut, occ f-m gr uncons rd-sbrd.

 Tr LIMESTONE gy-gybrn, micrite, arg, sl dol, n Ø, NSOFC.

 20% SILTSTONE gen a/a.
 63% SHALE var col, sft, sbblky-fis splty, occ slty-sl sdy, calc, NSOFC.

Energy Reserves Group, Inc. P.O. Box 3280 Casper, Wyoming 82602-3280 307 265 7331



January 23, 1985

State of Utah Natural Resources Oil, Gas and Mining 4241 State Office Building Salt Lake City, Utah 84114

Attention: Mr. Gilbert Hunt

RE: U.S.A. Pearl Broadhurst No. 2
Uintah County, Utah
Conversion to Class II Injection Well

Dear Mr. Hunt:

In reference to our phone conversation of 1-23-85, please find attached one copy of the Bureau of Land Management Sundry Notice and accompanying attachments for the conversion of the subject well to a Class II Injection Well.

Please advise if you have any questions or need additional information.

Sincerely yours, ENERGY RESERVES GROUP, INC.

Paul C. Bertoglio
Petroleum Engineer

Rocky Mountain District

Paul C. Berto, Lo

cc: Well File

Form approved. Budget Bureau No. 1004-0135 Form 3160-5 SUBMIT IN TRIPLIC Expires August 31, 1985 (November 1983) DEPARTMENT OF THE INTERIOR (Other instructions (Formerly 9-331) 5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT U-02651**-**A 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. 7. UNIT AGREEMENT NAME OIL | Water Injection Well OTHER S. FARM OR LEASE NAME NAME OF OPERATOR Energy Reserves Group. Inc. <u>USA Pearl Broadhurs</u>t ADDRESS OF OPERATOR WELL NO. P. O. Box 3280 Casper, Wyoming 82602 LOCATION OF WELL (Report location clearly and in accordance with any State requirements). See also space 17 below.)

At surface 2140' FNL & 500' FWL - OF GAS A RAIN 10. FIELD AND POOL, OR WILDCAT Walker Hollow 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 10 T7S-R23E 14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 12. COUNTY OR PARISH | 13. STATE GR-5110', KB 5121 Utah Uintah 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHIT-OF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL PRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT ALTERING CASING SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING REPAIR WELL (Other) Conversion to wtr Injection CHANGE PLANS (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) * Work has been completed to convert the subject well to a water injection well. Attached is a daily report of operations for this conversion. Except for periodic injection of 100-200 bbls. of water to keep paraffin from building up, the well is expected to be shut-in until a water filtration unit is in operation. An additional sundry notice will be sent once this well goes on continuous injection. (SEE ATTACHED PAGE) 18. I hereby certify that the foregoing is true and correct - Petroleum Engineer SIGNED (This space for Federal or State office use)

*See Instructions on Reverse Side

DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

ENERGY RESERVES GROUP, INC.
U.S.A. PEARL BROADHURST NO.2
SW NW SECTION 10 T7S-R23E
WALKER HOLLOW FIELD
UINTAH COUNTY, UTAH

CONVERSION TO INJECTION WELL

- 12-14-84 MI RUCT. Unseated pump. Flushed tbg w/150 bbls heated produced water. TOOH w/pump and rods SDFN.
- 12-15-84 Pumped 70 bbls heated produced water down tubing. Released tubing anchor. NU BOPE. TOOH. Left 6 jts of tubing in hole (backed off from seating nipple). TIH w/tubing. Tagged fish @ 5329.6'. Screwed back into fish. TOOH. SDFN and Sunday.
- 12-17-84 PU bit and 7" casing scraper. TIH to 5558'. Reversed circulated 550 bbls heated producted water. TOOH. SDFN.
- 12-17-84 PU Gearhart. Reperfed as follows:

ZONE	INTERVAL	SHOTS
K3	5340' - 5346'	4 JSPF-25 Shots
К3	5334 '- 5336 '	4 JSPF- 9 Shots
K2	5317'-5321'	4 JSPF-17 Shots
K1	5298'-5302'	4 JSPF-17 Shots
J8	5256'-5262'	4 JSPF-25 Shots
J7	5240'-5246'	4 JSPF-25 Shots
J6	5234'-5238'	4 JSPF-17 Shots
Н5	4720'-4728'	4 JSPF-33 Shots
H4	4691'-4695'	4 JSPF-17 Shots

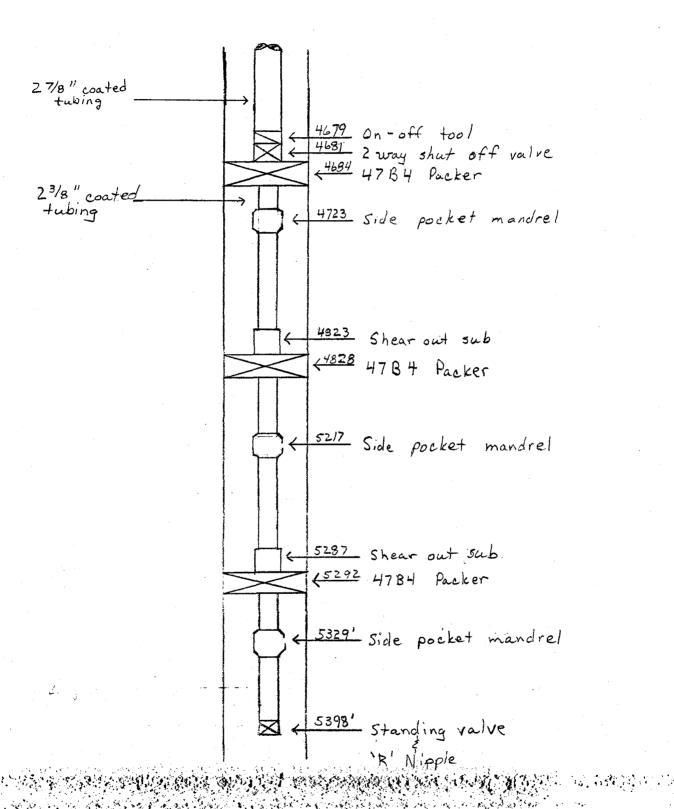
PU 7" casing scraper. TIH to 5400'. TOOH. PU Baker Model E Retrievomatic packer w/Model A retrieving head w/ Model "H" RBP. TIH w/tools and tubing. Attempted to set tools @ 5401'. Tubing unscrewed from packer. Screwed back in and TOOH. Found defective threads in cross-over on packer. Installed new cross over. TIH to 5409'. Pumped 200 bbls heated produced water. Set packer @ 5401' and RBP @ 5409'. Pressure tested to 3400 psi.-Held O.K. SDFN.

- RU Western. Dropped injection control valve. PU and isolated "K3". Check injection control valve-worked properly. Release packer and spotted tubing full of 15% HCL. Pumped 10 bbls into "K3". PU RBP and packer and isolated each zone. Acidized with 1 bbl of acid per foot @ 5 BPM. Total acid volume was 61 bbls. After acidizing "H4" zone, PU to 4650'. Reset packer. Pressure tested casing to 2500 psi for 30 mins. Held O.K. Released packer and RBP and TIH to 5360'. Set RBP: PU packer to 4650'. Flushed acid into formation w/200 bbls. heated water. SDFN.
- 12-20-84 TIH and latched onto RBP. TOOH. RU "torque-turn" tools (quality control equipment on thread make-up). TIH w/21 jts of 2 3/8" tbg w/ packer assembly followed by 74 jts of 2 7/8" tubing. 2 3/8" tubing and packer assembly coated w/TK-69; 2 7/8" tubing coates w/TK-33 SDFN.

- 12-21-84 Finished TIH w/2 7/8" tubing. Pump 150 bbls heated produced water down tubing. Ran collar locator log. Pumped 150 bbls heated produced water down casing followed by 160 bbls packer fluid. Dropped standing valve. Pressure up on tubing to 2000# and set packers. Stacked 8000# on tubing. ND BOPE. NU wellhead. SDFN. (See attached drawing for downhole assembly.)
- 12-22-84 RD MOCT.
- 12-29-84 Install flowline.
- 12-31-84 RU Production Logging Service. RIH w/slick and latched onto lowest dummy valve in mandrel. Tools hung up in downhole shut-off tool. Could not move up or down. Pump 200 bbls down tubing @ 900 psi in 2 hrs. Tool still would not move. Flanged up flowline. Started injection @ 4:45 P.M. 12-31-84 in an attempt to loosen tools.
- 1-1-85 Continued injection. Tools still would not move.
- 1-2-85 Stopped injection @ 7:35 A.M. Had pumped 1608 BW @ 500 psi. MI RUSU. ND wellhead. Stacked off on tubing and turned 1 turn to the right. Tools came free. Pulled the other two dummy valves. RD Production Logging Services. NU wellhead. RD MOSU. SI well. Waiting on water filtration unit before commencing continuous injection.

Egy Reserves Grouperc. U.S.A. Pearl Broad hunot 100. Z

Downhole Injection Assembly



'G Zone Water Analysis

CL1-12A (REV. 1964)

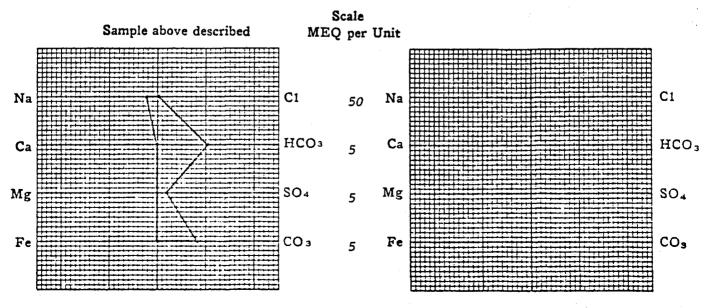
CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR Energy Reserves Group, I WELL NO. #14 Broadhurst FIELD Uintah STATE Utah	LOCATION SENE	-81 LAB NO. 37250 9-75-23E River '6' -3520' #1 MFE (3-29-81)
REMARKS & CONCLUSIONS:		
Sodium 2763 120 Potassium 9 0 Lithium 4 0	Anions 20	mg/1 meq/1 480 9.98 645 18.19 1225 40.79 3171 52.00
Total Cations 120	.96 Total A	nions
NaCl equivalent, mg/l 61	Specific resistance @ 68°. Observed Calculated	F.: 1.22 ohm-meters

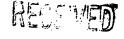
WATER ANALYSIS PATTERN



CL1-12A (REV. 1964) I' Zone Water Analysis

CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming



JUL 22 1980

Notebook

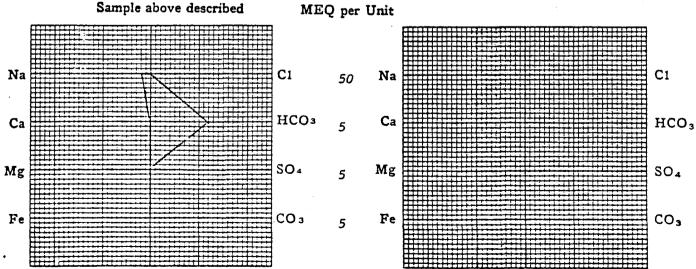
WATER ANALYSIS REPORT

RMD Cauper

OPERATOR_	Energy Reserves Gro	1D	DATE	7-9-80 LAB	NO. 34701-1
WELL NO_	#6 Broadhurst		LOCATION	Section 9-75-2.	
FIELD	Walker Hollow		FORMATION		
COUNTY	Uintah		INTERVAL	4964-5005	
STATE	Utah		SAMPLE FROM	DST #1 (Sample	Chamber)
REMARKS &	CONCLUSIONS:	· .		vania	
Cations Sodium Potassium -	mg/1 2462 18	meq/1 107.08	Anions Sulfate	mg/1 12 1720	meq/1 0.25 48.50
Lithium	-	-	Chloride Carbonate		
Calcium	23	1.15	Bicarbonate	3660	60.02
Magnesium	1	0.08			
Iron ·		-	Hydroxide Hydrogen sulfide		
	Total Cations	108.77	T	otal Anions	- 108.77
Total dissolved NaC1 equivaler Observed pH	solids, mg/1	6039 5218 7.8	Specific resistance Observed Calculated	<u> </u>	onm-meters

WATER ANALYSIS PATTERN

Scale



	UNITED STATES PARTMENT OF THE INT	- · · · · · · · · · · · · · · · · · · ·	Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO. U-02651A
SUNDRY (Do not use this form for Use "A	NOTICES AND REPORT Proposals to drill or to deepen or APPLICATION FOR PERMIT—" for s	TS ON WELLS plug back to a different reservoir. such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL GAS WELL OT	THER Water Injection	Well	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR			8. FARM OR LEASE NAME
Energy Reserves Gro	up, Inc.	APATE NOT	USA Pearl Broadhurst
3. ADDRESS OF OPERATOR			9. WELL NO.
	per, Wyoming 82602 cation clearly and in accordance with		2
See also space 17 below.) At surface	action creatily and in accordance with	SAS C MINING	10. FIELD AND POOL, OR WILDCAT
2140' FNL & 500' FW	L (SW/NW)	1975年1977日 - 199 8年198日 - 1988年198年198日 - 1988年198年198日 - 1988年198年198年198年198年198年198日 - 1988年198年198年198年198年198年198年198年198年198	Walker Hollow Field 11. SEC., T., E., M., OR BLK. AND
	_ (2,		SURVEY OR AREA
			Section 10 T7S-R23E
14. PERMIT NO.	15. ELEVATIONS (Show wheth		12. COUNTY OR PARISH 13. STATE
	5121' (GRD + 1	11')	Uintah Utah
18. Chec	ck Appropriate Box To Indica	te Nature of Notice, Report, or O	
	INTENTION TO:	i	
[<u>-</u>		Upgasus	ENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT SHOOT OR ACIDIZE	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CARING
REPAIR WELL	ABANDON* CHANGE PLANS	shooting or acidizing WIW Conve	ABANDONMENT*
(Other)	CHANGE FLARS	(NOTE: Report results of	of multiple completion on Well
<u> </u>	ED OPERATIONS (Clearly state all per	Completion or Recomple tinent details, and give pertinent dates, i locations and measured and true vertical	tion Report and Low form
reported on a previous		dated $1-7-85$. This sund	a water injection well as
3. I hereby certify that the forego	thick min b	Petroleum Engineer	4-11-85
Bobby Patr	ick		DATE
(This space for Federal or Stat	e office use)		

DATE _

TITLE _

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

Energy Reserves Group, Inc. P.O. Box 3280 Casper, Wyoming 82602-3280 307 265 7331



October 25, 1984

State of Utah Natural Resources Oil, Gas And Mining 4241 State Office Building Salt Lake City, Utah 84114

Attention: Mr. Gilbert Hunt

RE: U. S. A. Pearl Broadhurst No. 2

Uintah County, Utah

Application For Approval Of Class II Injection Well

Dear Mr. Hunt:

Please find enclosed an application to convert the subject well to a Class II Injection Well. As required by Rule I-5, the original and six (6) copies of Form DOGM-UIC-I and three (3) complete sets of the accompanying attachments are enclosed.

Should you have any questions concerning this application, please contact the undersigned at (307) 265-7331.

Thank you.

Respectfully yours,

ENERGY RESERVES GROUP, INC.

Paul C. Bertoglio

Petroleum Engineer

Rocky Mountain District

DECEIVED

DIAIGIOM OF OIL GAS & MINING



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 21, 1984

Vernal Express Legal Advertizing Vernal, Utah 84078

RE: UIC-047

Gentlemen:

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 4th day of December. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours, DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON

Administrative Assistant

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

---00000---

IN THE MATTER OF THE APPLICATION :
OF ENERGY RESERVES GROUP, INC. FOR
ADMINISTRATIVE APPROVAL TO CONVERT :
THE U.S.A. PEARL BROADHURST #2
WELL, SECTION 10, TOWNSHIP 7 SOUTH, :
RANGE 23 EAST, UINTAH COUNTY, UTAH,
TO A WATER INJECTION WELL. :

CAUSE NO. UIC-047

---00000---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Energy Reserves Group, Inc., P.O. Box 3280, Casper, Wyoming, 82602, has requested administrative approval from the Division to convert the U.S.A. Pearl Broadhurst #2 well, located in the SW1/4 NW1/4 of Section 10, Township 7 South, Range 23 East, Uintah County, Utah to an enhanced recovery injection well.

The proposed operating data for the well is as follows:

Injection Interval: Green River Formation 4691' to 5346' Maximum Estimated Surface Pressure: 1490 psig Maximum Estimated Rate: 800 BWPD

If no objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice, administrative approval of this application will be granted by the Division Director. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 21st day of November, 1984.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON

Administrative Assistant

CAUSE NO. UIC-047

BEFORE THE DIVI-SION OF OIL, GAS AND MINING, DEPART-MENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF ENERGY RESERVES GROUP, INC. FOR ADMINISTRATIVE APPROVAL TO CONVERT THE U.S.A. PEARL BROADHURST NO. 2 WELL, SECTION 10, TOWNSHIP 7 SOUTH, RANGE 23 EAST, UINTAH COUNTY, UTAH, TO A WATER INJECTION WELL.

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

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DATED this 21st day of November, 1984.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON Administrative Assistant

Published in the Vernal Express Nov. 28, 1984.

PROOF OF PUBLICATION

STATE OF UTAH, Second State of Uintah ss.

I, Nancy Colton,
being duly sworn, depose and say, that I am the Business Manager of The Vernal Express, a semi-weekly newspaper of general circulation, published twice each week at Vernal, Utah, that the notice attached hereto was published in said newspaper
forone publications,
the first publication having been made on
the 28thay of November , 19.84
and the last on the28th day of
November , 19.84 that said notice
was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in a supplement.
By Manager Manager
Subscribed and sworn to before me,
this28thay of _November
A. D. 1984.
Notary Public, Residence, Vernal, Utah
My Commission expires



DIVISION OF OIL, CAS & MINING CAUSE NO. UIC-047

BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF ENERGY RESERVES GROUP, INC. FOR ADMINISTRATIVE APPROVAL TO CONVERT THE U.S.A. PEARL BROADHURST NO. 2 WELL, SECTION 10, TOWNSHIP 7 SOUTH, RANGE 23 EAST, UINTAH COUNTY, UTAH, TO A WATER INJECTION WELL.

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Energy Reserves Group, Inc., P,O. Box 3280, Casper, Wyoming, 82602, has requested administrative approval from the Division to convert the U.S.A. Pearl Broadhurst No. 2 well, located in the SW¼NW¼ of Section 10, Township 7 South, Range 23 East, Uintah County, Utah to an enhanced recovery injection well.

The proposed operating data for the well is as follows:

Injection Interval: Green River Formation 4691' to 5346'. Maximum Estimated Surface Pressure: 1490 psig. Maximum Estimated Rate: 800 BWPD.

If no objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice, administrative approval of this application will be granted by the Division Director. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

DATED this 21st day of November, 1984.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON Administrative Assistant

Published in the Vernal Express Nov. 28, 1984.

PROOF OF PUBLICATION

STATE OF UTAH, County of Uintah ss.

I, Nancy Colton,
being duly sworn, depose and say, that I am the Business Manager of The Vernal Express, a semi-weekly newspaper of general circulation, published twice each week at Vernal, Utah, that the notice attached hereto was published in said newspaper
for .one publications,
the first publication having been made on
the _28thday of _November, 19.84
and the last on the28th day of
November , 19.84, that said notice
was published in the regular and entire issue of every number of the paper during the period and times of publication, and the same was published in the newspaper proper and not in a supplement.
By Dancy Golffy Manager
Subscribed and sworn to before me,
this 28thday of November
A. D. 1984. Notary Public, Residence, Vernal, Utah
My Commission expires



DIVISION OF OIL, GAS & MINING UIC-047

Publication notice was sent to:

Vernal Express Legal Advertizing Vernal, Utah 84078

Newspaper AGnecy Legal Advertizinv 143 South Main Mezzanine Floor Salt Lake City, Utah 84111

Energy Reserves Group PO Box 3280 Casper, Wyoming 82602-3280

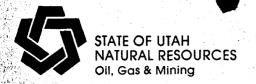
Bureau of Land Management Branch of Fluid Minerals U-(922) University Club Building 136 East South Temple Salt Lake City, Utah 84111 % Ed Gwynn

U.S. Environmental Protection Agency 1860 Lincoln Street ATTN: Mike Strieby Denver, CO 80295

Utah State Department of Health Water Pollution Control ATTN: Jerry Riding 150 W.N. Temple Salt Lake City, Utah 84111

Luff Exploration Company 1580 Lincoln Street Suite 850 Denver, CO 80203

Exxon Company, U.S.A. PO Box 120 Denver, CO 80201



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dianne R. Nielson, Ph.D., Division Director

424' State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 28, 1984

Energy Reserves Group, Inc. P.O. Box 3280 Casper, Wyoming 82602

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-047

Administrative approval is hereby granted to convert the below referenced well to an enhanced recovery water injection well. This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

U.S.A. Pearl Broadhurst #2
Section 10, Township 7 South, Range 23 East
Uintah County, Utah

If you have any questions concerning this matter, please do not hesitate to call or write.

Best regards,

Dianne R. Nielson

raine P. Nielson

Director

DN/CBF/mfp 010



• Affidavit of Publication

STATE OF UTAH,

County of Salt Lake

SS.

	Cheryl.Glerloff
CAUSE NO. UIC.047 BEFOIE THE DIVISION OF OIL GAS AND MINING JEPARTMENT OF NATURAL RESOURCES STATE OF UTAH IN THE MATTER OF THE AP- PLICATION OF ENERGY RE- SERVES GROUP, INC. FOR AD- MINISTRATIVE APPROVAL TO CONVERT THE U.S.A. PEARL BROADHURST =2 WELL, SECTION 10, TOWN- SHIP, 7- SOUTH, RANGE 23 EAST, UINTAH COUNTY, UTAM, TO A WATER INJEC- TION WELL. THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MAT- TER.D	Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.
Notice is hereby given that Energy Reserves Group, Inc., P.O. Box 3280, Casper, Wyo	That the legal notice of which a copy is attached hereto
ming, 82602, has requested ad- ministrative approval from the Division to convert the U.S.A. Pearl Broadhurst = 2 well, locat- ed in the SWY of Section 10, 1 Township 7 South, Range 23 - East, Uintah County, Utah to an	Cause No. UIC-047 Application of Energy
enhanced recovery injection well. The proposed operating data for the well is as follows:	Reserves Group, Inc.
Injection Interval: Green River Formation 46981' to 5346' Maximum Estimated Surface Pressure: 1490 psig Maximum Estimated Rate: 800 BWPD	
If no objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice, administrative approval of this application will be granted by the Division Director. Objections, if any, should be mailed to Division of Oil, Gas and Mining, 3 Triad Center, Suite 350, Saft Lake City, Utah 84180-1203.	was published in said newspaper on December 1, 1984
DATED this 21st day of No-1 vember, 1984. STATE OF UTAH DIVISION OF OIL, GAS AND WINNO OF OIL ARBORNED Administrative Assistant C-20	Legal Advertising Clerk
Subscribed and sworn to b	pefore me this day of
Degember	A.D. 19.84
	B. J. Warie Notary Public
My Commission Expires	OTARY PU
March I, 1988	

Affidavit of Publication

STATE OF UTAH,

County of Salt Lake

SS.

	Cheryl Gierloff.
CAUSE NO. UIC-047 BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH IN THE MATTER OF THE AP- PLICATION OF ENERGY RE- SERVES GROUP, INC. FOR AD- MINISTRATIVE APPROVAL TO CONVERT THE U.S.A. PEARL BROADHURST =2 WELL, SECTION 10, TOWN- SHIP 7 SOUTH, RANGE 23 EAST, UINTAH COUNTY, UTAH, TO A WATER INJEC- TION WELL. THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MAT- TER.D NOTICE IS PERSON OF THAT NOTICE IS NOTICE OF THAT NOTICE IS NOTICE OF THAT TER.D NOTICE IS NOTICE OF THAT THE ABOVE ENTITLED MAT- TER.D	Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.
P.O. Box 3280, Casper, Wyo- ming, 82602, has requested ad- ministrative approval from the	That the legal notice of which a copy is attached hereto
Division to convert the U.S.A. Pearl Broadburst = 2 well, located in the SW's of Section 10, Township 7 South, Range 23 East, Uintah County, Utoh to an enhanced recovery injection	Cause No. UIC-047 Application of Energy
well. The proposed operating data for the well is as follows:	Reserves Group, Inc.
Injection Interval: Green River Formation 46881' to 5346' Maximum Estimated Surface Pressure: 1490 psig Maximum Estimated Rate: 800 BWPD	
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vember, 1984. STATE OF UTAH DIVISION OF OIL, GAS AND MINING MARJORIE L. LARSON Administrative Assistant C-20	Legal Advertising Clerk
	efore me this day of A.D. 1984
	B.J. Dimie
	Notary Public
y Commission Expires	TARYP
March 1, 1988	Jan Land Barrer

Energy Reserves Group, Inc. P.O. Box 3280 Casper, Wyoming 82602-3280 307 265 7331



August 15, 1985

State of Utah Natural Resources & Energy 4241 State Office Building Salt Lake City, Utah 84114

Attn: Gilbert L. Hunt

RE: USA Pearl Broadhurst #2 Section 10 T7S-R23E Walker Hollow Field Uintah County, Utah Class II Injection Well

Dear Mr. Hunt:

Energy Reserves Group, Inc. (ERG) began water injection in the subject well on April 10,1985. The Class II injection well application submitted and approved for the well, requested a maximum surface injection pressure of 1,490 psi. The Green River, the injection formation, is starting to pressure up, and the surface injection pressure at times is exceeding the approved pressure of 1,490 psi. ERG operates another Class II injection well in the subject field, the USA Pearl Broadhurst #5. The attached State of Utah letter indicates a maximum surface injection pressure of 2420 psi was granted on May 21, 1983 for the #5 well. Once the injection pressure stabilized in the #5 well it has averaged 2300 psi for 2.5 years.

Attached is a summary of bottomhole pressures required to fracture the Green River formation at the subject lease. Three wells were used to come up with a bottomhole fracture pressure of 4,891 psi for a fracture gradient of 0.97 psi/ft. This data was taken from three actual hydraulic fractures in the Green River at the lease. Using this data a surface injection pressure of 3,015 psi would be required to fracture the formation.

ERG is requesting the State of Utah to grant at least 2,420 psi, the same pressure granted previously for the #5 well, for the #2 well. ERG doesn't expect to exceed a 2,420 psi pressure limitation, but past history indicates at least this much pressure limitation is necessary. Your prompt attention to this matter would be appreciated since the formation is already starting to pressure up.

If you have any questions regarding this information please don't hesitate to call.

Sincerely yours, ENERGY RESERVES GROUP, INC.

Bobby Patrick

Petroleum Engineer

Rocky Mountain District

Bobby Patrick

cc: Lance Neiberger

Keith Pankey

DETERMINATION OF FRACTURING PRESSURE

Broadhurst No. 2

Frac'd with crude down 7" casing at 42 BPM and 3300 psi. Average Depth is 5020'

Bottomhole Fracture Pressure= 3300 psi + 1883 psi - 350 psi (Surface) (Hydrostatic) (Friction) = 4833 psi

Fracture Gradient = 0.96 psi/ft

Broadhurst No. 6

Frac'd with gelled oil-water emulsion down 5 1/2" casing at 34 BPM and 3400 psi. Average Depth is 5,328'.

Bottomhole Fracture Pressure = 3400 psi + 2307 psi - 456 psi (Surface) (Hydrostatic) (Friction) = 5251 psi

Fracture Gradient = 0.99 psi/ft

Broadhurst No. 9

Frac'd with gelled diesel and water down 5 1/2" casing at 39 BPM and 3450 psi. Average Depth is 5,358'.

Bottomhole Fracture Pressure = 3450 psi + 2320 psi - 590 psi (Surface) (Hydrostatic) (Friction) = 5180 psi

Fracture Gradient = 0.97 psi/ft.

Average Bottomhole Fracture Pressure @ 5020'
= 4833 + 4970 + 4869
3
= 4891 psi

 $\frac{\text{Average Bottomhole Fracture Pressure}}{5020} = \frac{4891}{5020} = 0.97 \text{ psi/ft}$

Surface pressure required to frac the injection well

Injection is down 2 7/8" tubing to an average depth of 5020 ft. injection is estimated to be 850 BWPD.

Surface Pressure = 4869 psi - 2174 psi + 20 psi + 300 psi
(Fracturing Pressure) (Hydrostatic) (Friction (Friction Downhole
Tubing) Regulator)
=3015 psi



Norman H. Bangerter, Governor Dee C. Hansen, Executive Director Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 19, 1985

Energy Reserves Group, Inc. P.O. Box 3280 Casper, Wyoming 82602-3280

Bobby Patrick Attn:

Dear Mr. Patrick:

RE: Injection Pressure Increase, USA Pearl Broadhurst #2, T7S,R23E, Section 10, Uintah County, Utah

The requested surface injection pressure of 2420 psi for the above referenced well is hereby approved.

Sincerely,

UIC Manager

GH/mfp 0156U-33 BEFORE THE OIL AND GAS CONSERVATION COMMISSION

OF THE STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF PAN AMERCIAN PETROLEUM CORPORATION FOR AN ORDER PERMITTING A SECONDARY RECOVERY PROJECT IN THE GREEN RIVER FORMATION, RED WASH FIELD, UINTAH COUNTY, UTAH.

Cause No. 108-1

Pursuant to the Application of Pan American Petroleum Corporation, this cause came on for hearing before the Oil and Gas Conservation Commission of the State of Utah at 2:00 o'clock P.M., Thursday, March 11, 1965, in the office of the Commission, Suite 301 I.B.M. Building, Salt Lake City, Utah. All of the Members of the Commission were present except Charles P. Olson, with Bryant H. Croft presiding.

Testimony and evidence on behalf of the Applicant were presented by the Applicant and by the Commission's staff.

No objection to the granting of the application was filed or expressed. The Commission, upon consideration of all of the evidence and being fully advised in the premises finds as follows:

FINDINGS

- 1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties in the form and manner and within the time required by law.
- 2. The Commission has jurisdiction over the matter covered by said application and over all parties interested therein and has jurisdiction to make and promulgate the order hereinafter set forth.
- 3. That Applicant's lease waterflood project will increase the ultimate recovery of oil and gas from the productive sands in the Green River Formation underlying Applicant's USA Pearl Broadhurst lease without causing waste, but that certain limitations should be imposed both to protect cortelative rights and to assure that pollution of surface and ground water by disposal of produced water does not occur.

IT IS THEREFORE ORDERED:

1.. That the plan and program for a secondary recovery project in the Green River Formation be approved and that with respect thereto. Pan American

Petroleum Corporation be authorized to recomplete its Pearl Broadhurst Well No. 3 in Section 9. Township 7 South, Range 23 East, SLBM, to a water injection well for injection of water into the "H", "J" and "K" sands of the Green River Formation.

- 2. That upon proper application and showing made to the Commission's staff, and the staff being satisfied therewith, the Executive Director, or his delegate, be authorized to approve modifications of Applicant's waterflood project, including the conversion of additional oil wells to water injection wells or the drilling of injection wells as they may be required for the proper operation of the project; provided, that such modification shall apply only to waterflooding into the "H", "J" and/or "K" sand series, as aforesaid.
- 3. The Applicant shall submit to the Commission a quarterly report containing a statement of the volume of waters produced and an analysis of the salinity content of such produced water, such analysis to include a showing of total solids in solution.

Dated this Eleventh Day of March, 1965.

STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION

Bryant H. Croft, Chairman

C. R. Henderson, Commissioner

C C Themes Commissiones

M. V. Hatch, Commissioner



CORE LABORATORIES

TAB #: 910934-1

APR 2 9 1991

BHP PETROLEUM

Sec. 10, T. 75, R. 23E DIVISION () 43-047-15693 OIL GAS & MINING

PEARL BROADHURST #2

UINTAH COUNTY:

STATE: UT

FORMATION:

GR. RIVER H, J, K

DATE SAMPLED: REMARKS: BY G. MARTIN

4-10-91

WALKER HOLLOW FIELD:

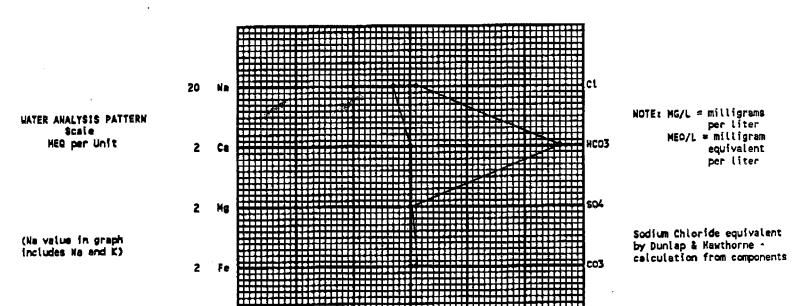
LOCATION: INTERVAL:

SAMPLE ORIGIN: INJECTION

	MG/L	MEQ/L		MG/L	MEQ/L
SODIUM POTASSIUM CALCIUM MAGNESIUM	1820 7 4 2	79.17 0.17 0.18 0.16	SULFATE CHLORIDE CARBONATE BICARBONATE HYDROXIDE	20 950 96 3172 0	0.42 26.79 3.20 52.02 0.00
TOTAL (CATIONS	79.68	TOTAL A	NIONS	82.42

: :	MG/L	SPECIFIC RESISTANCE AT 68F (OHM-M):
CALC. SODIUM	1883	OBSERVED 1.55
NACL EQUIVALENT	3775	
CALC TDS* @356 F	4461	
API TDS* @221 F		OBSERVED pH 8.4

* TOTAL DISSOLVED SOLIDS



APPROVED BY:

The analyses, opinions of interpretations contained in this report are based upon observations and material supplied by the ctient for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgement of Core Leboratories. Core Laboratories assumes no responsibility and makes no matranty or representations. express or implied, as to the productivity, proper operations, or profitableness nowever of any oil, gaz, coal or other mineral, properly, well or sand in connection with which such report is used or relied upon for any reason whatsoever

GENERAL ATI ANTIC

RESOURCES, INC.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 14, 1993

RECEIVED

JUN 1 7 1993

State of Utah
Oil & Gas Conservation Commission
Three Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203

DIVISION OF

RE: Change of Operator Sundry Notices and Reports on Wells

Gentlemen:

By Assignment dated April 30, 1993, effective January 1, 1993, General Atlantic Resources, Inc. ("GARI") purchased the interests of BHP Petroleum (Americas) Inc., Hamilton Brothers Oil Company, Hamilton Brothers Exploration Company and The Norwegian Oil Corporation (DNP-U.S.) collectively ("BHP"), in the properties referenced on the enclosed forms. BHP was the designated operator of said properties, resigning effective May 1, 1993. GARI has been acting as the operator in the interim while balloting was being conducted to determine the successor operator.

GARI has been named successor operator. Enclosed are executed forms for your review and approval reflecting this change. In the event you have questions or concerns relative to this transfer of operatorship, please contact Jim Lee Wolfe, Vice President of Operations or the undersigned at the letterhead address and/or call (303) 573-5100. Thank you for your timely attention in this matter.

Very truly yours,

GENERAL ATLANTIC RESOURCES, INC.

Lynn D. Becker, CPL

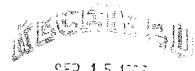
Landman

Enclosures

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

, , , , , , , , , , , , , , , , , , , ,		5. LEASE DESIGNATI	ON & SERIAL NO.
	r	SEE BELOW	
SUNDRY NOTICES AND REPORTS C (Do not use this form for proposals to drill or to deepen or plug ba Use "APPLICATION FOR PERMIT—" for such	ck to a different reservoir.	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
OIL GAS G		1. UNIT AGREEMENT	NAME
WELL OTHER NAME OF OPERATOR		SEE BELOW	
	S OPERATOR)	8. FARM OR LEASE N	AME
ADDRESS OF OPERATOR	o or Engiron)	9. WELL NO.	
5847 San Felipe, Suite 3600, Houston, Texas LOCATION OF WELL (Report location clearly and in accordance with any State requi	77057	SEE ATTACHE	
LOCATION OF WELL (Report location clearly and in accordance with any State requi See also space 17 below.)	rements.	10. FIELD AND POOL	OR WILDCAT
At proposed prod. zone 9,10,13,18,19,20,21,23,25,2	6,27,28	II. SEC., T., R., M., OR SURVEY OR	
4. APT NO. 15. ELEVATIONS (Show waether DF.	RT, GR, etc.)	12. COUNTY	13. STATE
		Uintah	Utah
6. Check Appropriate Say To Indicate No.			1 ocan
Check Appropriate box to indicate its	iture of Notice, Report or Ot	her Data	
NOTICE OF INTENTION TO:	SUBSEQ	UENT REPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRIN	G WELL
FRACTURE TREAT MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERINO	CASING
SHOOT OR ACIDIZE ABANDON	SHOOTING OR ACIDIZING	ABANDON	MENT*
REPAIR WELL CHANGE PLANS (Other)	(Other) <u>CHANGE OF</u> (Note: Report results	OPERATUR of multiple completion	on Well X
(omer)		npletion Report and Lo	
APPROX. DATE WORK WILL START	DATE OF COMPLETION	5/01/93	
EFFECTIVE DATE: January 1, 1993. NEW OPERATOR: General Atlantic Resources,		anied by a cement v	erification report
ADDRESS: 410 17th Street, Suite 1400, Den	ver, Colorado 80202	•	UN 1 7 1993
	SE #: UTU02651A		
USA Pan American Roosevelt Unit Wasatch	UTSL065759 892000886A		DIVISION OF GAS & MININ
Attached is a list of the wells which mak	e up the above leas	es along with	their
respective API numbers. This method of ow			
Romero, Division of Oil, Gas and Mining,			
Romero, Division of Oir, Gas and Mining,	ball hake city, ola	11.	
8. I hereby cochify that the foregoing is true and correct SIGNED CALLOLL TITLE REPO	latory Off, Rep.	DATE 4 2	1/93
(This space for Federal or State office use)			
1300 01/20 2V			
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:		DATE	

L	KASE	WELL#	API NUMBER
USA Pear	el Broadhurst "" "" "" "" "" "" "" "" "" "" "" "" ""	2	775 R 2 = -43-047-15692 43-047-15693 43-047-15694 43-047-30705 43-047-30730 43-047-30696 43-047-30840 43-047-30841 43-047-30842 43-047-30842 43-047-30901 43-047-30903 43-047-30905 - 43-047-30905 - 43-047-30940 43-047-30941 43-047-30941 43-047-30941 43-047-30941 43-047-30941
" " " " " " " " " " " " " " " " " " "	American """" """ """ """ """ """ """ """ """	6 — 6	43-047-31025 TSS R 22E 43-047-15682 43-047-15683 43-047-15684 43-047-15686 43-047-15687 43-047-15688 43-047-15689 43-047-15690 43-047-15691 AD T/S /E 43-047-31254 43-047-31366 43-047-31402
		9W 2 10W 3 C11 7 Mary 278	\$\qquad 43-047-31445 43-047-31446 \$\qquad 43-047-31500



TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

SEP 15 1993

DIVISION OF OIL, GAS & MIMIN'

Well name and number: <u>USA PEARL BROADHURS</u>	ST #2
	•
Field or Unit name: <u>WALKER HOLLOW</u>	API no. 4 <u>3-047-15693</u>
Well location: QQ <u>SW/NW</u> section <u>10</u> townsh	ip <u>7S</u> range <u>23E</u> county <u>UINTAH</u>
Effective Date of Transfer: <u>5/1/93</u>	
CURRENT OPERATOR	
Transfer approved by:	
Name CARL KOLBE	Company BHP PETROLEUM (AMERICAS) INC.
Signature Walkolbe	Address 5847 SAN FELIPE, SUITE 3600,
Title <u>REGULATORY AFFAIRS REPRESENTATIVE</u>	HOUSTON, TEXAS 77057
Date <u>8/16/93</u>	Phone (713) 780-5000
Comments:	
	:
NEW OPERATOR	
Transfer approved by:	
Name Oscar L. Peters	
Signature Oslan L. Peters	Address 410 17TH STREET, SUITE 1400
Title Senior Operations Engin	eer DENVER, COLORADO 80202
Date September 7,1993	Phone (303) 573-5100
Comments:	
(State use only) Transfer approved by	TitleWorkinger
Approval Date 9-16-93	

ırm 3155-5 une (1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Buresu No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.

USA U-02651-A

		1 03% 0 05031 W
SUNDRY NOTICES A	6. If Indian. Allottee or Tribe Name	
	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
	SEP 2 0 1993	-
Type of Well Oil Gas Well Other	DIVISION OF	8. Well Name and No. 2 (see a Pearl Broadhurst exhibi
General Atlantic Resources, In	c. OIL, GAS & MININC	9. API Well No. 43-047-15693 (see att. exhibit A)
	enver, Colorado 80202 (303) 573-5100	10. Field and Pool, or Exploratory Area
Location of Well (Footage, Sec., T., R., M., or Survey De	escription)	11. County or Parish, State
(See attached exhibit A) Sections 9 and 10, Township 7		Uintah County, Utah
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction
Subsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
Final Abandonment Notice	Altering Casing Change of operator	Conversion to Injection Dispose Water (Note Report results of multiple completion on Well Completion or Recompletion Report and Log form)
Bond coverage pursuant to 43 Conoral Atlantic Resources Ir	CFR 3104 for lease activities is being nc. under their nationwide bond, BLM becompliance under the lease terms and control with this notice. VERNAL DIST. ENG. GEOL. E.S. PET.	g provided by bond number CO1023.
14. I hereby certify that the foregoing is true and correct Signed (This space for Backerd or State office life)	Lynn D. Becker Landman ASSISTANT DISTRICT MANAGER MINERALS	Date August 20, 1993 SEP 1 0 1993

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, ficutious or fraudulent statements or representations as to any matter within its jurisdiction.

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5



	DIVISION OF
Well name and number: <u>USA PEARL BROADHURS</u>	OH CAC O MINING
Field or Unit name: <u>WALKER HOLLOW</u>	API no. 43-047-15693
Well location: QQ <u>SW/NW</u> section <u>10</u> townsh	nip <u>7S</u> range <u>23E</u> county <u>UINTAH</u>
Effective Date of Transfer: <u>5/1/93</u>	
CURRENT OPERATOR	
Transfer approved by:	
Name <u>CARL KOLBE</u>	Company BHP PETROLEUM (AMERICAS) INC.
Signature Carl Kolbe	Address 5847 SAN FELIPE, SUITE 3600,
Title REGULATORY AFFAIRS REPRESENTATIVE	HOUSTON, TEXAS 77057
Date <u>8/16/93</u>	Phone (713) 780-5000
Comments:	
	<u>.</u>
NEW OPERATOR	
Transfer approved by:	
Name April J.M. Lahnum	Company GENERAL ATLANTIC RESOURCES, INC.
Signature April 1 Xah	Address 410 17TH STREET, SUITE 1400
Title Production Technician	DENVER, COLORADO 80202
Date September 16, 1993	Phone (303) 573-5100
Comments:	
(State use only) Transfer approved by	Title
Approval Date	

4		
Division of	_0il, Gas	and Mining
OPERATOR	CHANGE	and Mining HORKSHEET

(PAGE 1 OF

Routing: 1-VACIGIA 2_DTS//57-SJ 3_VLC -8-EXLI 4_RJF

Attach all documentation received by the division regarding this change. Initial each listed item when completed. Write N/A if item is not applicable. 5_LECE □ Designation of Agent XX Change of Operator (well sold) 6_PL □ Operator Name Change Only ☐ Designation of Operator

5-1-93 The operator of the well(s) listed below has changed (EFFECTIVE DATE:

TO (new operator) GENERAL ATLANTIC RES INC (address) 410 17TH ST #1400 DENVER, CO 80202 LYNN BECKER, LANDMAN phone (303) 573-5100 account no. N 0910

FROM (former operator) BHP PETROLEUM/AMERICAS INC (address) 5847 SAN FELIPE #3600

HOUSTON, TX 77057 CARL KOLBE (713) 780-5301 phone (713) 780-5245 account no. N 0390

Hell(s) (attach additional page if needed):

Name: <u>USA PEARL BH: \$1/GRRV</u> API: <u>43-047-15692</u> Entity: <u>225</u> Sec <u>9</u> Twp <u>75</u> Rng <u>23E</u> Lease Type <u>U02651A</u> Name *USA PEARL BH #2/GRRV API: 43-047-15693 Entity: 225 Sec 10 Twp 75 Rng 23E Lease Type: " Name: USA PEARL BH #4/GRRV API: 43-047-15694 Entity: 225 Sec 9 Twp 75 Rng 23E Lease Type: " Name *USA PEARL BH #5/GR & WSAPI: 43-047-15695 Entity: 225/914 Sec 10 Twp 75 Rng 23E Lease Type: " Name: BROADHURST #6/GRRV API: 43-047-30705 Entity: 225 Sec 9 Twp 75 Rng 23E Lease Type: "
Name: BROADHURST #7/GRRV API: 43-047-30730 Entity: 225 Sec 9 Twp 75 Rng 23E Lease Type: " Name: BROADHURST #8/GRRV API: 43-047-30696 Entity: 225 Sec 10 Twp 75 Rng 23E Lease Type: " CONT.

OPERATOR CHANGE DOCUMENTATION

- 1. (Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>former</u> operator (Attach to this form). (feet / 16-17-93)
- Fel 2. (Rule R615-8-10) Sundry or other <u>legal</u> documentation has been received from <u>new</u> operator (Attach to this form). (Red 6-17-93)
- र्ट 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: $\frac{\#92898}{}$.
- Le 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- $\cancel{\underline{\mu\ell}}$ 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (9.28.93)
- Lec 6. Cardex file has been updated for each well listed above. (9-28-43)
- ፲፫፫ 7. Well file labels have been updated for each well listed above. (9-28-43)
- ટાટ 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (9-28-93)
- Jet 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

(12/93)

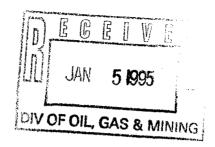
STATE OF UTAH

DIVISION OF OIL, GAS AND MINING 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203 Page 2 of 2

MONTHLY OIL AND GAS PRODUCTION REPORT

Name and Signature:				Т	elephone Number:			
hereby certify that this report is true and complete to	the best of m	y knowledge.		Da	le:			
			·					
								
COMMENTS:								
			•					
			TOTALS					
						·		
	GREV -	TAZ						
<u> 13049-15695 09141 7523E 10</u>	WSTC-	- WIW						
<u>48-047-15693 00225 75 23E 10</u> USA PEARL BROADHURST 5		-Wlu)		iı				
USA FEL Brokest #2				,,		······································		
PEARL BROADHURST 22	GRRV			¥6				
BROADHURST #21 4304730942 00225 075 23E 9	GRRV			ii				
✓BROADHURST #20 4304730941 00225 075 23E 9	GRRV			[1				
PEARL BROADHURST 19 4304730940 00225 075 23E 9	GRRV			н				
BROADHURST #18 4304730939 00225 075 23E 9	GRRV			и				
BROADHURST #17 4304730905 00225 075 23E 10	GRRV			402651-A				
API Number Entity Location	Zone	Status	Oper	OIL(BBL)	GAS(MCF)	WATER(BBL)		
Well Name	Producing	Well	Days		Production Volumes			
410 17TH ST STE 1400 DENVER CO 80202			AMENDED REPORT (Highlight Changes)					
APRIL LAHNUM GENERAL ATLANTIC RES IN	1C		REPO	RT PERIOD (MONTH	/YEAR): 12 / 94	·		
			UTAH	ACCOUNT NUMBER	<u> </u>			
OPERATOR NAME AND ADDRESS:					N0910			

UMC Petroleum Corporation



January 23, 1995

State of Utah Division of Oil, Gas and Mining 3 Triad Center, #350 Salt Lake City, Utah 84180-1203

Re: Change of Operator

Gentlemen,

On November 15, 1994, General Atlantic Resources, Inc. merged into UMC Petroleum Corporation. Enclosed please find a copy of the certificate of merger as well as State of Utah Form 9 with an attachment listing all wells and their locations.

UMC Petroleum Corporation will be operating these wells effective January 1, 1995. If there are any questions or you require additional information, please contact the undersigned at (303) 573-4732.

Sincerely,

UMC PETROLEUM CORPORATION

April J.M. Lahnum

Production Technician

ajml

{LETTERS/utah}

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In E	G	<u> </u>	V	图	
NG	JAN	2.5	1995		

STATE OF UTAH DIVISION OF OIL, GAS AND MI	NING
and the fit	AN L. J. Sos
	S. LEASE DESIGNATION & SERIAL NO.
CULIDAY MOTICES AND DEPONTS	TALL CHARLES GAS & STIFTHER ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS (Do not use this form for proposals to drill or to deepen or plug b Use "APPLICATION FOR PERMIT—" for suc	ock to a different reservoir.
COIL GAS OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR LIMC Datus laws Companying	8. FARM OR LEASE NAME
UMC Petroleum Corporation 1. ADDRESS OF OPERATOR	USA Pearl Broadhurst
410 17th Street, Suite 1400, Denver, CO 8	<u> </u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requires also space 17 below.)	ILLEMENTS. 10. FIELD AND POOL, OR WILDCAT
At surface (see attached exhibit A)	- Green River
At proposed prod. zone Sections 9 and 10, T7S, R23	E 11. SEC., T., R., M., OR BLK, AND SURVEY OR AREA
14. API NO. 15. ELEVATIONS (Show whether DE	Sec 9 & 10, T7S, R23E
(see att. exhibit A)	13. 31.42
	Uintah UT
Cuery Appropriate DOX 10 funicate is	ature of Notice, Report or Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF, REPAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE	FRACTURE TREATMENT ALTERING CASING
SHOOT OR ACIDIZE REFAIR WELL CHANGE PLANS	shooting or acidizing ABANDONMENT* (Other) Change of Operator
REFAIR WELL CHANGE PLANS (Other)	(Note: Report results of multiple completion on Well
——————————————————————————————————————	Completion or Recompletion Report and Log form.)
APPROX. DATE WORK WILL START	DATE OF COMPLETION
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly strateging any proposed work. If well is directionally drilled, give subsurfapertinent to this work.) 	ate all pertinent details, and give pertinent dates, including estimated date of the locations and measured and true vertical depths for all markers and zones
	* Must be accompanied by a cement verification report.
On November 15, 1994, General Atlantic Res Corporation. (See enclosed certificate of	
UMC Petroleum Corporation will begin opera	ting the referenced lease on January 1, 1995
Bond coverage for lease activities is bein their nationwide bond, BLM bond number BO1	g provided by UMC Petroleum Corporation under 843.
18. I hereby certify that the stagoing true and correct Apr	il J.M. Lahnum
	duction Technician DATE January 20, 1995
(This space for Federal or State office use)	

DATE _

TITLE .

GENERAL ATLANTIC RESOURCES, INC. - Well Location Report Report Date: 01-18-1995 - Page 1 Reporting Field WALKER HOLLOW

Utah Production	PRAMS I.D.	Company Identification #	State I.D.#	API Numb er	Lease Name/Number	Formation	Qtr/Qtr	Sec.	Тwр	. Rge	County	Operator
WALKER HOLLOW Field												
PEARL BROADHURST #1	PEARL1	UT-017-01-001	00225	43-047-15692-00	UTU02651A	GREEN RIVER	NESE	9	7s	23E	UINTAH	GARI-BHP
PEARL BROADHURST #10	PEARL10	UT-017-01-009	00225	43-047-30839-00	UTU02651A	GREEN RIVER	NWSW	9	7s		UINTAH	GARI-BHP
PEARL BROADHURST #11	PEARL11	UT-017-01-010	00225	43-047-30840-00	UTU02651A	GREEN RIVER	NWNE	10			UINTAH	GARI-BHP
PEARL BROADHURST #12	PEARL12	UT-017-01-011	00225	43-047-30841-00	UTU02651A	GREEN RIVER	NWNW		7s		UINTAH	GARI-BHP
PEARL BROADHURST #13	PEARL13	UT-017-01-012	00225	43-047-30842-00	UTU02651A	GREEN RIVER	NENE	9	7s		UINTAH	GARI-BHP
L BROADHURST #14	PEARL14	UT-017-01-013	00225	43-047-30904-00	UTU02651A	GREEN RIVER	SENE	9	7s		UINTAH	GARI-BHP
PEARL BROADHURST #15	PEARL15	UT-017-01-014	00225	43-047-30901-00	UTU02651A	GREEN RIVER	SESE	9	7s		UINTAH	GARI-BHP
PEARL BROADHURST #16	PEARL16	UT-017-01-015	00225	43-047-30903-00	UTU02651A	GREEN RIVER	NWSW	10	7s		UINTAH	GARI-BHP
PEARL BROADHURST #17	PEARL17	UT-017-01-016	00225	43-047-30905-00	UTU02651A	GREEN RIVER	SENW	10			UINTAH	GARI-BHP
PEARL BROADHURST #18	PEARL18	UT-017-01-017	00225	43-047-30939-00	UTU02651A	GREEN RIVER	NWNE	9	7s		UINTAH	GARI-BHP
PEARL BROADHURST #19	PEARL19	UT-017-01-018	00225	43-047-30940-00	UTU02651A	GREEN RIVER	NWNE	9	7s		UINTAH	GARI-BHP
/ PEARL BROADHURST #2 (いん)	PEARL2	UT-017-01-002	00225	43-047-15693-00	UTU02651A	GREEN RIVER	SWNW	10	7s		UINTAH	GARI-BHP
PEARL BROADHURST #20	PEARL20	UT-017-01-019	00225	43-047-30941-00	UTU02651A	GREEN RIVER	SESW		7s		HATRIU	GARI-BHP
PEARL BROADHURST #21	PEARL21	UT-017-01-020	00225	43-047-30942-00	UTU02651A	GREEN RIVER	SESW	9	7s		UINTAH	GARI-BHP
PEARL BROADHURST #22	PEARL22	UT-017-01-021	00225	43-047-31025-00	UTU02651A	GREEN RIVER	SESW	10	7s		UINTAH	GARI-BHP
PEARL BROADHURST #4	PEARL4	UT-017-01-003	00225	43-047-15694-00	UTU02651A	GREEN RIVER	SWSE	9	7s	23E	UINTAH	GARI-BHP
PEARL BROADHURST #5 (ωίω)	PEARL5A	UT-017-01-004	00225	43-047-15695-00	UTU02651A	GREEN RIVER	SWSW	10	7s		UINTAH	GARI-BHP
PEARL BROADHURST #6	PEARL6	UT-017-01-005	00225	43-047-30705-00	UTU02651A	GREEN RIVER	NESW	9	7s		UINTAH	GARI-BHP
PEARL BROADHURST #7	PEARL7	UT-017-01-006	00225	43-047-30730-00	UTU02651A	GREEN RIVER	SWSW	9	7s		UINTAH	GARI-BHP
PEARL BROADHURST #8	PEARL8	UT-017-01-007	00225	43-047-30696-00	UTU02651A	GREEN RIVER	NESW	10	7s	23E	UINTAH	GARI-BHP
PEARL BROADHURST #9	PEARL9	UT-017-01-008	00225	43-047-30787-00	UTU02651A	GREEN RIVER	NENW	10	7s	23E	UINTAH	GARI-BHP

EXHIBIT "A"

State of Delaware

Office of the Secretary of State

PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF
DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT
COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"GENERAL ATLANTIC RESOURCES, INC.", A DELAWARE CORPORATION, WITH AND INTO "UMC PETROLEUM CORPORATION" UNDER THE NAME OF "UMC PETROLEUM CORPORATION", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE FIFTEENTH DAY OF NOVEMBER, A.D. 1994, AT 11:10 O'CLOCK A.M.

TAY'S OUT OF STANKING OF STANK

Edward J. Freel, Secretary of State

AUTHENTICATION:

DATE: 7306080

11-17-94

2257442 8100M

944221473

STATE OF DELAWARE SECRETARY OF STATE DIVISION OF CORPORATIONS FILED 11:10 AM 11/15/1994 944219417 - 2257442

CERTIFICATE OF MERGER

OF

GENERAL ATLANTIC RESOURCES, INC., A DELAWARE CORPORATION

AND

UMC PETROLEUM CORPORATION, A DELAWARE CORPORATION

UMC Petroleum Corporation, a Delaware corporation, certifies that:

- 1. <u>Constituent Corporations</u>. The constituent business corporations participating in the merger herein certified are:
- (a) General Atlantic Resources, Inc., which is incorporated under the laws of the State of Delaware; and
- (b) UMC Petroleum Corporation, which is incorporated under the laws of the State of Delaware.
- 2. Approval of Agreement and Plan of Merger. An Agreement and Plan of Merger dated as of August 9, 1994 ("Agreement and Plan of Merger"), has been approved, adopted, certified, executed and acknowledged by each of the aforesaid constituent corporations in accordance with the provisions of Section 251 of the General Corporation Law of the State of Delaware.
- 3. <u>Surviving Corporation</u>. The surviving corporation (the "<u>Surviving Corporation</u>") in the merger herein certified is UMC Petroleum Corporation, a Delaware corporation.
- 4. <u>Certificate of Incorporation</u>. The certificate of incorporation of UMC Petroleum Corporation, a Delaware corporation, shall be the certificate of incorporation of the Surviving Corporation, except that Article 4 thereof is hereby amended and restated in its entirety as follows:
 - 1. Authorized Shares. The total authorized capital stock of the corporation shall consist of Common Stock. The aggregate number of shares of Common Stock that the corporation shall have authority to issue is three thousand (3,000) with the par value of one cent (\$.01) per share.
- 5. Agreement and Plan of Merger on File. The executed Agreement and Plan of Merger is on file at the principal place of business of the Surviving Corporation, the address

of which as of the date hereof is as follows:

1201 Louisiana Street Suite 1400 Houston, Texas 77002

Copies of Agreement and Plan of Merger. A copy of the Agreement and Plan of Merger will be furnished by the Surviving Corporation, on request and without cost, to any stockholder of any of the aforesaid constituent corporations.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Merger on behalf of UMC Petroleum Corporation on this 15th day of November, 1994.

> UMC PETROLEUM CORPORATION, a Delaware corporation

By:

Name:

Title:

President and Chief Executive Officer

Attest:

By:

Name:

Marya Ingram

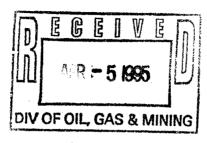
Corporate Secretary Title:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3100 U-02651A et al (UT-923)



MAR 2 4 1995

NOTICE

UMC Petroleum Corporation 1201 Louisiana, Suite 1400 Houston, Texas 77002-5603 Oil and Gas

U-02651A, U-51411,

U-55626, U-58530

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of General Atlantic Resources, Inc. into UMC Petroleum Corporation with UMC Petroleum Corporation being the surviving entity.

For our purposes, the merger is recognized effective November 15, 1994.

The oil and gas lease files identified above have been noted as to the merger. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

A rider to UMC's bond (BLM Bond No. NM1773) assuming the liability accrued under General's bond (BLM Bond No. CO1023) was accepted effective March 7, 1995, the date the rider was filed.

/s/ ROBERT LOPEZ

Chief, Branch of Mineral Leasing Adjudication

bc:

Vernal District Office

Moab District Office

MMS—Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217

UT-922 (Teresa Thompson)

Lisha Cordova, State of Utah, Division of Oil, Gas, and Mining, 3 Triad Center, Suite 350, Salt Lake City, Utah 84189-1204

Date March 15, 1995

APR 0 6 1995

orm 3160-5 UNITED STATES UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT			FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.		
Do not use this fo	6. If Indian, Allottee or Tribe Name				
	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation		
1. Type of Well		RECEIVED	UTU02651A		
Oil Gas Well Well	Other	MAR 2 0 1995	8. Well Name and No.		
2. Name of Operator		MAIN 2 1999	Pearl Broadhurst		
UMC Petroleum Address and Telephone N					
=	et, Suite 1400, D	enver, CO 80202 (303) 573-5100	(see attachment) 10. Field and Pool, or Exploratory Area		
	e, Sec., T., R., M., or Survey De		Walker Hollow		
(see attachme	nt)		11. County or Parish, State		
(see accacime			Uintah, UT		
: CHECK /	APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF	SUBMISSION	TYPE OF ACTION			
Notice of	f Intent	Abandonment	Change of Plans		
		Recompletion	New Construction		
Subseque	nt Report	Plugging Back	Non-Routine Fracturing		
		Casing Repair	Water Shut-Off		
Final Ab	andonment Notice	Altering Casing Change of Operator	Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)		
give subsurface locat On November 1.	ions and measured and true vertical	pertinent details, and give pertinent dates, including estimated date of starting and depths for all markers and zones pertinent to this work.)* Atlantic Resources, Inc. merged with larger.)			
Petroleum Cor	poration under the der the lease term	FR 3104 for lease activities is being eir nationwide bond, B01843. They will not and conditions for that portion of	ll be reponsible for		
Attachment li and API well	sts all wells assonumbers.	AP	number, their location, VENTL VIST ZNG. WPS JZ 77 REGLT 1995 E.S. WEIGAS & MINING		

(This space for Federal o

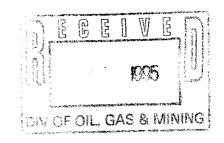
Approved by Conditions of approval, if any:

April J.M. Lahnum

Title Production Technician

	State I.D.#	API Number	Lease Name/Number	Formation	Qtr/Qtr	Sec.	Twp.	Rge	County
Utah Production									
WALKER HOLLOW Field									
PEARL BROADHURST #1	00225	43-047-15692-00	UTU02651A	GREEN RIVER	NESE	9	7S	23E	UINTAH
PEARL BROADHURST #10	00225	43-047-30839-00	UTU02651A	GREEN RIVER	NWSW	9	7s	23E	HATRIU
PEARL BROADHURST #11	00225	43-047-30840-00	UTU02651A	GREEN RIVER	NWNE	10	7S	23E	UINTAH
PEARL BROADHURST #12	00225	43-047-30841-00	UTU02651A	GREEN RIVER	NWNW	10	7s	23E	HATRIU
PEARL BROADHURST #13	00225	43-047-30842-00	UTU02651A	GREEN RIVER	NENE	9	7s	23E	UINTAH
PEARL BROADHURST #14	00225	43-047-30904-00	UTU02651A	GREEN RIVER	SENE	9	7s	23E	HATRIU
PEARL BROADHURST #15	00225	43-047-30901-00	UTU02651A	GREEN RIVER	SESE	9	7s	23E	UINTAH
PEARL BROADHURST #16	00225	43-047-30903-00	UTU02651A	GREEN RIVER	NWSW	10	<i>7</i> s	23E	HATHIU
PEARL BROADHURST #17		43-047-30905-00	UTU02651A	GREEN RIVER	SENW	10	7s	23E	UINTAH
PEARL BROADHURST #18		43-047-30939-00	UTU02651A	GREEN RIVER	NWNE	9	7s	23E	UINTAH
PEARL BROADHURST #19	กกววะ	43-047-30940-00	UTU02651A	GREEN RIVER	NWNE	9	7s	23E	UINTAH
PEARL BROADHURST #2	00225	43-047-15693-00	UTU02651A	GREEN RIVER	SWNW	10	7s	23E	HATRIU
PEARL BROADHURST #20	00225	43-047-30941-00	UTU02651A	GREEN RIVER	SESW	9	78	23E	HATRIU
PEARL BROADHURST #21	00225	43-047-30942-00	UTU02651A	GREEN RIVER	SESW	9	7\$	23E	HATRIU
PEARL BROADHURST #22	00225	43-047-31025-00	UTU02651A	GREEN RIVER	SESW	10	78	23E	UINTAH
PEARL BROADHURST #4	00225	43-047-15694-00	UTU02651A	GREEN RIVER	SWSE	9	7s	23E	UINTAH
PEARL BROADHURST #5	00225	43-047-15695-00	UTU02651A	GREEN RIVER	SWSW	10	7s	23E	UINTAH
PEARL BROADHURST #6	00225	43-047-30705-00	UTU02651A	GREEN RIVER	NESW	9	7s	23E	UINTAH
PEARL BROADHURST #7	00225	43-047-30730-00	UTU02651A	GREEN RIVER	SWSW	9	7s	23E	UINTAH
PEARL BROADHURST #8	00225	43-047-30696-00	UTU02651A	GREEN RIVER	NESW	10	7s	23E	UINTAH
PEARL BROADHURST #9	00225	43-047-30787-00	UTU02651A	GREEN RIVER	NENW	10	7\$	23E	UINTAH

UMC Petroleum Corporation



March 7, 1995

State of Utah Natural Resources Oil, Gas and Mining #3 Triad Center, Suite 350 Salt Lake City, UT 84180-5340

Attention: Lisha Cordova

RE: Walker Hollow Field, Pearl Broadhurst #2 & #5 WIW, Uintah County.

Dear Ms. Cordova,

Enclosed are the completed form-5 for the transfer of authority to inject for the subject wells.

If you have any questions or need additional information, I can be reached at (303) 573-4721.

Sincerely,

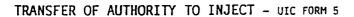
United Meridian Corporation Operations Department

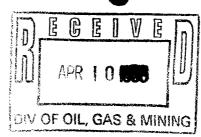
In UM

Scott M. Webb

Regulatory Coordinator

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING





e e e e e e e e e e e e e e e e e e e	
Well name and number: USA Pearl Broadhur	cst #2 WIW
Field or Unit name: Walker Hollow Field	API no. 43-047-15693
Well location: QQ <u>SWNW</u> section <u>10</u> towns	hip <u>7S</u> range <u>23E</u> county <u>Uintah</u>
Effective Date of Transfer: 1/1/95	
CURRENT OPERATOR	
Transfer approved by:	
Name	Company General Atlantic Resources, Inc
Signature Combre Wolfe	Address 410 17th Street, Suite 1400
Title Vice President Operations	Denver, CO 80202
Date <u>4/7/95</u>	Phone (303) 573-5100
Comments:	
ع العمل المستوارين على المستوارين على المستوارين على المستوارين العالم المستوارين العالم المستوارين العالم الم	
NEW OPERATOR	
Transfer approved by:	
NameJim Lee Wolfe	Company UMC Petroleum Corporation
Signature Simbon Wolfe	Address 410 17th Street, Suite 1400
Title Vice President Operations	Denver, CO 80202
Date <u>4/7/95</u>	Phone (303) 573-5100
Comments:	
(State use only) Transfer approved by	Title Jawkson. Managre
Approval Date 4-17-95	



State of Utah department of natural resources division of oil, gas and mining

Michael O. Leavitt Governor Ted Stewart Executive Director James W. Carter Division Director 801-359-3940 (Fax) 801-538-5319 (TDD)

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340 801-359-3940 (Fax)

			Date: APRIL 6, 1995
То:	KATHY SEDGWICK	From:	LISHA CORDOVA
	UMC PETROLEUM CORPORATION		Division of Oil, Gas and Mining
	FAX #(303)573-0813		350 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203
Enclos	ed is the information you requested re	garding:	
	Utah Code Ann. 40-6-1 et seq., (1953	as amend	ed)
	Utah Admin. R.649-1 et seq. (Oil and	Gas Cons	servation General Rules)
·	General Report Forms		
	Guidance Document - Reserve Pits, et	tc.	
	Guidance Document - Cleanup Levels	/Soils	
	Guidance Document - Casing Setting	Depth	
·	Disposal Strategy - E & P Wastes		
	Listing of Approved Disposal Facilities	S	
X	Other: TRANSFER OF AUTHORITY TO I	NJECT - U	JIC FORM 5
	DIFACE SURMIT UTC ES FOR THE U	SA PRL BI	ROADHURST #2/WATER INJECTION WEL
Messag	6: ITEMSE SOBULL OIC 13 FOR THE O		· · · · · · · · · · · · · · · · · · ·
Messag	AND THE USA PEARL BROADHURST #	5/WATER	INJECTION WELL.
Messag			

	ion of Oil, Gas and Mining ATTOR CHANGE WORKSHEET	Rout fing:
	h all documentation received by the division regarding this change. al each listed item when completed. Write N/A if item is not applicable.	1 LXC/ GIL 2-LWF 7-SJ V 3-DES/8-PL / 4-VLCL9-FXE
	ange of Operator (MERGER) □ Designation of Agent signation of Operator □ Operator Name Change Only	5-RJF
The o	operator of the well(s) listed below has changed (EFFECTIVE DATE:	11-15-94
TO (n	(address) 410 17TH ST STE 1400 (address) DENVER CO 80202	GENERAL ATLANTIC RES INC 410 17TH ST STE 1400 DENVER CO 80202 APRIL LAHNUM phone (303) 573-5100 account no. N 0910
He11(:	(S) (attach additional page if needed):	
Name: Name: Name: Name: Name:	API: 43047 15693 Entity: Sec Twp API: Entity: Sec Twp API: Entity: Sec Twp API: Entity: Sec Twp API: Entity: Sec Twp API: Entity: Sec Twp API: Entity: Sec Twp API: Entity: Sec Twp API: Entity: Sec Twp	Rng Lease Type: Rng Lease Type: Rng Lease Type: Rng Lease Type: Rng Lease Type:
Jec. 1.	TOR CHANGE DOCUMENTATION . (Rule R615-8-10) Sundry or other <u>legal</u> documentation has bonerator (Attach to this form). (feed 1-25.95) . (Rule R615-8-10) Sundry or other <u>legal</u> documentation has been reconstructed to this form). (feed 1-25.95)	
	. The Department of Commerce has been contacted if the new operations operating any wells in Utah. Is company registered with the yes, show company file number: #152682 . (*#.6/91)	state: (yes/no) IT
	. (For Indian and Federal Hells ONLY) The BLM has been contact (attach Telephone Documentation Form to this report). Make comments section of this form. Management review of Federal changes should take place prior to completion of steps 5 through	and Indian well operator
μ <u>c</u> 5.	Changes should take place prior to completion of steps 5 through Changes have been entered in the Oil and Gas Information System listed above. (44.45)	n (Wang/IBM) for each well
W 6.	Cardex file has been updated for each well listed above. 4_18_9	۴
- A	. Well file labels have been updated for each well listed above. 🗲	
	Changes have been included on the monthly "Operator, Address, for distribution to State Lands and the Tax Commission. $(4-6.95)$	
MC9.	A folder has been set up for the Operator Change file, and a constant there for reference during routing and processing of the	opy of this page has been

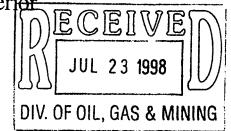
OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.
ENTITY REVIEW
1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. We entity changes made? (yes (no) (If entity assignments were changed, attach copies Form 6, Entity Action Form).
VA 2. State Lands and the Tax Commission have been notified through normal procedures entity changes.
BOND VERIFICATION (Fee wells only)
$\sqrt{4/1}$. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished yet proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) Today's date19 If yes, division response was made by lett dated19
EASE INTEREST OHNER NOTIFICATION RESPONSIBILITY
1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has be notified by letter dated 19, of their responsibility to notify a person with an interest in such lease of the change of operator. Documentation of su notification has been requested.
/1-2. Copies of documents have been sent to State Lands for changes involving State leases.
ILMING
1. All attachments to this form have been microfilmed. Date: May 7 1995
ILING
1. Copies of all attachments to this form have been filed in each well file.
2. The <u>original</u> of this form and the <u>original</u> attachments have been filed in the Operator Change file.
OMMENTS
950131 Reg. 111C F5 (27 Wells.
9502 Trust Lands admin. "accepted merger".
9502 Trust Lands Admin. " accepted merger". 950324 B/m/54 aprv. e.H. 11-15-94.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155



In Reply Refer To: 3100 U-02651A et al (UT-932)

JUL 2 1 1998

NOTICE

Ocean Energy, Inc. 1201 Louisiana, Suite 1400 Houston, TX 77002-5603 (713)654-9110

Oil and Gas: 49-02651A

U-09712A, U-020691A,U-8894A, U-8895A, U-8897A,U-40401, U-64058

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of UMC Petroleum Corporation into Ocean Energy, Inc. with Ocean Energy, Inc. being the surviving entity.

For our purposes, the merger is recognized effective May 15, 1998, the effective date set by the New Mexico State Office.

The oil and gas lease files identified above have been noted as to the merger. The list was compiled from your list of leases, and a list of leases obtained from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal is automatically changed by operation of law from UMC Petroleum Corporation to Ocean Energy, Inc. on Bond No. BO1843 (BLM Bond No. NM1773). A rider amending the principal's name from UMC Petroleum Corporation to Ocean Energy, Inc. has been filed in the New Mexico State Office, examined, and found to be satisfactory.

ROBERT LOPEZ
Robert Lopez
Group Leader,
Minerals Adjudication Group

cc: Moab District Office

Vernal Field Office

MMS-Reference Data Branch, MS 3130, P.O. Box 5860, Denver, CO 80217 State of Utah, DOGM, Attn: Lisha Cordova (Ste. 1210) P.O. Box 145801, SLC, UT 84114 07/31/98 DETAIL WELL DATA menu: opt 00

api num: 4304715693 prod zone: GRRV sec twnshp range qr-qr entity: 225 : 10 7.0 S 23.0 E SWNW

well name: USA PRL BRDHRST #2

operator: N9215 : UMC PETROLEUM CORPORATION meridian: S

field: 700 : WALKER HOLLOW

confidential flag: confidential expires: alt addr flag:

* * * application to drill, deepen, or plug back * * *

lease number: U-02651-A lease type: 1 well type: OW

surface loc: 2140 FNL 0500 FWL unit name:

prod zone loc: 2140 FNL 0500 FWL depth: 5900 proposed zone: GR-WS

elevation: 5121' GR apd date: 631211 auth code: * * completion information * * date recd: la/pa date:

spud date: 631216 compl date: 640119 total depth: 5800'

producing intervals: 4693-5340'

bottom hole: 2140 FNL 0500 FWL first prod: 640202 well status: WIW

24hr oil: 24hr gas: 24hr water: gas/oil ratio: * * well comments: directionl: api gravity:

850107 CONV WIW:850410 COMM INJ:930928 FR N0390 5/93:950406 FR N0910 11/94:

950510 1993 CUM ADJ:

opt: 21 api: 4304715693 zone: date(yymm): 9600 enty acct: P0379



September 2, 1998

Lisha Cordova Utah Department of Natural Resources Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

SEP 3 1998

DIV OF OIL, GAS & MINING

RE:

Merger of UMC Petroleum Corporation and Ocean Energy, Inc.

Pearl Broadhurst #2, #4, #5 & #14.

Dear Ms. Cordova:

Effective April 1, 1998, UMC Petroleum Corporation merged with Ocean Energy, Inc. Effective June 30, 1998, all onshore wells were transferred to its wholly owned subsidiary, Ocean Energy Resources, Inc. Enclosed is the requested UIC Form 5's for the subject change of operation for the original merger and the subsequent re-organization in June 30 1998. All wells previously operated by UMC Petroleum in Utah are now operated by Ocean Energy Resources, Inc.

There has been no change in personnel with whom you are already familiar. Furthermore, the address for all notices, revenues and remittances, notifications and general correspondence remains the same:

Ocean Energy, Resources, Inc. 410 17th Street, Suite 1400 Denver, Colorado 80202

Please distribute this notice to any other applicable departments within your organization that should be aware of this change.

If you have any questions, please feel free to contact the undersigned at (303) 573-4721.

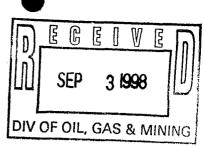
Sincerely,

Scott M. Webb

Regulatory Coordinator

STATE OF UTAH DIVISION OF OIL, GAS AND MINING





Well name and number: Pearl Broadhust	#2 Federal Lease # U-025651A
Field or Unit name: Walker Hollow Field	
Well location: QQ SWNW section 10 townsh	
Effective Date of Transfer: April 1, 199	
CURRENT OPERATOR	
Transfer approved by:	
Name Scott M. Webb	Company UMC Petroleum Corporation
Signature Signature	Address 410 17th St., STE 1400
Title Regulatory Coordinator	Denver, CO. 80202
	Phone (303) 573-4721
Date 9/2/98	
Comments:	and the second control of the control of
•	
NEW OPERATOR	
Transfer approved by:	
Name Scott M. Webb	Company Ocean Energy, Inc.
1 m W	Address 410 17th St., STE 1400
Signature Pagulatory Coordinator	Denver, · CO 80202
Title Regulatory Coordinator	Oh / 202 \ 572 7721
Date 9/2/98	Phone (303) 573-4721
Comments:	
(4)	
(State use only) Transfer approved by	Title Tech Selvers Mangar
Approval Date 9/9/98	



SECRETARY OF STATE

Is Prevelary of Flute, of the State of Louisiana, I do hereby Certify that

the annexed and following is a True and Correct copy of a Merger as shown by comparison with document filed and recorded in this Office on March 27, 1998.



In lestimony whereof, I have hereunto set my hand and caused the Seal of my Office to be affixed at the City of Balon Rouge on,

April 17 1998

Jox. W: Lillen

CGR

Secretary of State



CERTIFICATE OF MERGER

of UMC Petroleum Corporation, a Delaware corporation into Ocean Energy, Inc., a Louisiana corporation

Pursuant to Section 112 of the Louisiana Business Corporation Law (the "LBCL"), Ocean Energy, Inc., a Louisiana corporation ("OEI"), hereby adopts the following Certificate of Merger regarding the merger (the "Merger") of UMC Petroleum Corporation, a Delaware corporation ("UMCPC" and, together with OEI, the "Constituent Corporations"), with and into OEI, with OEI as the surviving corporation (the "Surviving Corporation").

- 1. Ocean Energy, Inc., a Louisiana corporation, and UMC Petroleum Corporation, a Delaware corporation, are the parties to the Merger.
- 2. The Agreement and Plan of Merger, dated March 27, 1998 (the "Merger Agreement"), has been approved, adopted, certified, executed and acknowledged by the Constituent Corporations in accordance with Section 112 of the LBCL.
 - 3. The Merger is effective at 3:02 p.m., Central Standard Time, on March 27, 1998.
 - 4. The name of the Surviving Corporation shall be Ocean Energy, Inc.
- 5. Article III of the Articles of Incorporation of Ocean Energy, Inc. is amended in connection with the Merger to increase the authorized capital of the Surviving Corporation and, as a result of the amendment, Article III shall be and read as follows: The aggregate number of shares which the corporation shall have authority to issue is 3,000 shares without par value, all of which shares shall be of one class and shall be designated as Common Stock. The Articles of Incorporation of the Surviving Corporation as amended by the amendment to Article III shall be its articles of incorporation.
- 6. The executed Merger Agreement is on file at the principal place of business of the Surviving Corporation, 1201 Louisiana, Suite 1400, Houston, Texas 77002.
- 7. A copy of the Merger Agreement will be furnished by the Surviving Corporation, on request and without cost, to any shareholder of UMC Petroleum Corporation or Ocean Energy, Inc., the parties to the Merger.

This Certificate of Merger is dated this 27th day of March, 1998.

OCEAN ENERGY, INC.

Name: Robert K. Reeve

Title: Executive Vice President,

General Counsel and Secretary

STATE OF TEXAS

3

COUNTY OF HARRIS

8 3

BEFORE ME, the undersigned authority, personally came and appeared Robert K. Reeves, who being duly sworn, declared and acknowledged before me that he is the Executive Vice President, General Counsel and Secretary of Ocean Energy, Inc., a Louisiana corporation, and acknowledged to me that he was authorized to and executed the foregoing Certificate of Merger of UMC Petroleum Corporation into Ocean Energy, Inc. in such capacity for the purposes therein expressed, and as his, and said corporation's free act and deed.

IN WITNESS WHEREOF, the said appearer, witnesses and I, notary, have hereunto affixed our hands on this 27 day of March, 1998 at Houston, Texas.

WITNES?

Robert K. Reeves

NOTARY PUBLIC State of Texas Corren. Exp. 09-19-20

Notary Public in and for the State of Texas

Vid L

State of Delaware Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"UMC PETROLEUM CORPORATION", A DELAWARE CORPORATION, WITH AND INTO "OCEAN ENERGY, INC." UNDER THE NAME OF "OCEAN ENERGY, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF LOUISIANA, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SEVENTH DAY OF MARCH, A.D. 1998, AT 12:22 O'CLOCK P.M.

AUTHENTICATION: 9012828

2257442 8100M

981130659

DATE: 04-06-98

STATE OF DELAWARE SECRETARY OF STATE DIVISION OF CORPORATIONS FILED 12:22 PM 03/27/1998 981119273 - 2257442

CERTIFICATE OF MERGER

Merger of UMC Petroleum Corporation, a Delaware corporation
With and Into
Ocean Energy, Inc., a Louisiana corporation

Pursuant to the Provisions of Section 252 of the Delaware General Corporation Law, the undersigned certifies as follows concerning the merger (the "Merger") of UMC Petroleum Corporation, a Delaware corporation, with and into Ocean Energy, Inc., a Louisiana corporation (together with UMC Petroleum Corporation, the "Constituent Corporations"), with Ocean Energy, Inc. as the surviving corporation (the "Surviving Corporation").

- 1. The Agreement and Plan of Merger, dated March 27, 1998 (the "Merger Agreement"), has been approved, adopted, certified, executed and acknowledged by the Constituent Corporations in accordance with Section 252 of the Delaware General Corporation Law.
- 2. The Merger contemplated in the Merger Agreement and this Certificate of Merger will be effective at 3:02 p.m., Central Standard Time, on March 27, 1998.
 - 3. The name of the Surviving Corporation shall be Ocean Energy, Inc.
- 4. Article III of the Articles of Incorporation of Ocean Energy, Inc. is amended in connection with the Merger to increase the authorized capital of the Surviving Corporation and, as a result of the amendment, Article III shall be and read as follows: The aggregate number of shares which the corporation shall have authority to issue is 3,000 shares without par value, all of which shares shall be of one class and shall be designated as Common Stock. The Articles of Incorporation of the Surviving Corporation as amended by the amendment to Article III shall be its articles of incorporation.
- 5. The executed Merger Agreement is on file at the principal place of business of the Surviving Corporation, 1201 Louisiana, Suite 1400, Houston, Texas 77002.
- 6. A copy of the Merger Agreement will be furnished by the Surviving Corporation, on request and without cost, to any stockholder of UMC Petroleum Corporation or Ocean Energy, Inc.
- 7. The Surviving Corporation may be served with process in the State of Delaware in any proceeding for enforcement of any obligation of the Constituent Corporations, as well as for enforcement of any obligation of the Surviving Corporation arising from the Merger, including any suit or other proceeding to enforce the right of any stockholder as determined in appraisal proceedings pursuant to the provisions of Section 262 of the Delaware General Corporation Law, and the Surviving Corporation does hereby irrevocably appoint the Secretary of State of

HOU04:83924.3

Delaware as its agent to accept service of process in any such suit or other proceedings. The address to which a copy of such process shall be mailed by the Secretary of State of Delaware is c/o Ocean Energy, Inc., 1201 Louisiana, Suite 1400, Houston, Texas 77002, Attention: Secretary, until the Surviving Corporation shall have hereafter designated in writing to the Secretary of State of Delaware a different address for such purpose.

Dated this 27th day of March, 1998.

OCEAN ENERGY, INC

Name: Robert K. Reeves

Title: Executive Vice President,

General Counsel and Secretary

Division of Oil, Gas and Mining

dons/wpdocs/forms/operching

OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change. Initial each listed item when completed. Write N/A if item is not applicable.

Routing	(
1-112/14	6-LECKRY
2-GL/10	7-KAS 1
3-1075 cc	8-SI V
4-VI-DCDW	9-FILE
5-IR	

XXX Change of C ☐ Designation	of Operator (well sold)	☐ Designation o	_		
The operator of	the well(s) listed below ha	s changed, effective:	4-1-98 (MER	RGER)	
TO: (new opera (addr	,	FROM	(: (old operator) (address)	PO BOX 549	M CORPORATION
	NEWCASTLE WY 82	2701–0549		NEWCASTLE WY	82701-0549
	Phone: (307) 746-4 Account no. N3220			Phone: (307) Account no. N	
WELL(S) attach	additional page if needed:				
Name: Name:	API:	Entity: Entity: Entity: Entity:	S S 1	r = R = L	ease:ease: ease: ease:
	API:	Entity:	S 7	Γ R L	ease:
Name:	API:	Entity:	S	Γ <u>R</u> L	ease:
1. (r649-8 form). 1. (r649-8 form). 1. (r649-8 form). 1. (r649-8 form).	HANGE DOCUMENTA -10) Sundry or other legal of the U1-3-18) 8-10) Sundry or other legal of the U3-18 characteristic partment of Commerce on Utah. Is the company recommend of the U5-18.	documentation has be all documentation has has been contacted in	been received from f the new operator a	n the NEW operate above is not current	tor (Attach to this
4. FOR II note of change	NDIAN AND FEDERAL BLM status in comments should ordinarily take properties to be should.	s section of this form	. BLM approval of	f Federal and Ind	lian well operato:
201 (7-31	es have been entered in the -98) * WIC Quattre E. I If file has been updated for	DBASE		0) for each well lis	sted above.
Chol7. Well fi	le labels have been update	ed for each well listed	above. (8-3-98)		
8. Change to Trus	s have been included on the t Lands, Sovereign Lands,	e monthly "Operator,	Address, and Accor	unt Changes" men	ao for distribution
Lec 9. A foldereferen	er has been set up for the ce during routing and proc	Operator Change f	ile, and a copy of documents.	this page has been	n placed there for

- OVER -

INSPECTION FORM 5STATE OF UTAH DIVISION OF OIL GAS AND MINING

INJECTION WELL - INSPECTION RECORD

Well Name: Pearl Broadhurst #2 Qtr/Qtr: SW/NW Section: 10 To Company Name: Citation Oil & Gas	ownship: <u>7S</u> Range: <u>23E</u>
Lease: State Fee Inspector: <u>David Hackford</u>	Federal <u>X</u> Indian Date: <u>5/10/99</u>
Injection Type:	
Disposal: Enhanced Recove	ry: <u>X</u> Other:
Injecting: No	Shut-In: Yes
Rate: 0 (bpd)	Totalizer: 0 bbls.
Gauges: Tubing: yes	
Casing: <u>yes</u> Tubing Pressure: 0 (psig)	Casing Pressure: <u>0 (psig)</u> Housekeeping: <u>Fair</u>
Equipment Condition: Good	
COMMENTS: One 400 bbl. Upright tank on	site, not in use.

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: USA Pearl Broadhur	st #2 Fed Lease # U-025651-A		
Field or Unit name: Walker Hollow Field	API no. 43-047-55887		
Well location: QQ $\underline{^{ ext{SWNW}}}$ section $\underline{^{10}}$ towns			
Effective Date of Transfer: $1/1/99$			
CURRENT OPERATOR			
Transfer approved by:			
Name Scott M. Webb	Company Ocean Energy Resources, Inc.		
Signature M.	Address 410 17th Street, Suite 1400		
Title Regulatory Coordinator	Denver, Colorado 80202		
Date1/5/99	Phone (303) 573-5100		
Comments: Effective January 1, 1999 Change of Operation of well. NEW OPERATOR			
Transfer approved by:			
Name Robert T. Kennedy	Company Citation Oil & Gas Corp.		
Signature What I Thenly	8223 Willow Place South Address Suite 250		
Title V.P. Land	Houston, Texas 77070-5623		
Date	Phone (281) 469-9664		
Comments: Effective January 1, 1999 Change of Operation of well.			
(State use only) Transfer approved by	Title TExh. SEN. Many 32		
Approval Date 6-21-99	×		

STO OF UTAH DIVISION OF OIL, GAS AND MINING

			U-025651-A	ion & Serial No.
(Do not use this form fo	NOTICES AND REPORTS (r proposals to drill or to deepen or plug b. 'APPLICATION FOR PERMIT—" for suc	ack to a different reservoir.		TTEE OR TRIBE NAME
OIL GAS G		,	7. UNIT AGREEMEN	T NAME
	THER Injection Well		8. FARM OR LEASE	Mille
Ocean Energy Resou	irces. Inc.		USA Pearl B	
. ADDRESS OF OPERATOR	i i		9. WELL NO.	- Ioddirdi St
410 17th Street, S	Suite 1400, Denver, Colora	ado 80202	2	
See also space 17 below.)	tion clearly and in accordance with any State req	uirements.	10. FIELD AND POOR Walker Hol	
At proposed prod. zone	O' FNL & 500' FWL SW NW		11. SEC., T., R., M., O SURVEY OF	
			10-7S-R23E	
43.047.15	693	F, RT, GR, etc.)	ויע county Uintah	UT
re. C	heck Appropriate Box To Indicate N	lature of Notice, Report or	Other Data	
NOTICE O	f intention to:	SUE	SEQUENT REPORT OF:	
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON CHANGE PLANS		ALTERIN ABANDO	
APPROX. DATE WORK WILL	START	DATE OF COMPLETION	I	-
pertinent to this work.)	or: Effective Date January Ocean Energy, Resources, 410 17th Street, Suite 1	7 1, 1999.* Must be acc	companied by a cement	
	Denver, Colorado 80202			
New Operator:	Citation Oil & Gas Corp. 8223 Willow Place South Suite 250 Houston, Texas 77070-562		9664 DECE! JAN 13	1999
		•	DIV. OF OIL, GAS	S WINNING
18. I hereby certify that the for	regoing is true and confect	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	2 CH Re	gulatory Coordinto	r DATE 1	/6/00
SIGNED	TITLE	Berneral Scartering	DVIE	

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

			5. LEASE DESIGNATION & SERIAL NO.
·			U-025651-A
(Do not use this form for	NOTICES AND REPORTS Comproposals to drill or to deepen or plug band APPLICATION FOR PERMIT—" for such	ck to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1. OIL GAS C	T 4		7. UNIT AGREEMENT NAME
WELL WELL OT	HER Injection Well		8. FARM OR LEASE NAME
2. NAME OF OPERATOR	0		USA Pearl Broadhurst
Citation Oil & Gas	corp.		9. WELL NO.
8223 Willow Place	South, Suite 250, Houston	TX 77070-5623	2
See also space 17 below.)	tion clearly and in accordance with any State requirement of FNL & 500 FWL SW NW	irements.	Walker Hollow Field
At proposed prod. zone	THE & JOU FWE SW NW		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
We brokered brown some			10-T7S-R23E
	15. ELEVATIONS (Show whether DF	PT GR etc.)	12. COUNTY 13. STATE
43.047.151	093		Uintah UT
16. C	heck Appropriate Box To Indicate N	ature of Notice, Report or	Other Data
NOTICE O	f intention to:	SUBS	SEQUENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other) Change Of	of multiple completion on Well
(Other)		Completion or Re	ecompletion Report and Log form.)
APPROX. DATE WORK WILL	START	DATE OF COMPLETION	
perlinent to this work.) Change of Operato	r: Effective Date January	1, 1999.* Must be acco	ompanied by a cement verification report
Former Operator:	Ocean Energy, Resources,	Inc. (303) 573-	5100
Former Operator:	Ocean Energy, Resources, 410 17th Street, Suite 1 Denver, Colorado 80202	, ,	5100
Former Operator: New Operator:	410 17th Street, Suite 1	400	9664
	410 17th Street, Suite 1 Denver, Colorado 80202 Citation Oil & Gas Corp. 8223 Willow Place South	(281) 469-	9664 DECEIVE DAN 1 4 1999
New Operator:	410 17th Street, Suite 1 Denver, Colorado 80202 Citation Oil & Gas Corp. 8223 Willow Place South Suite 250 Houston, Texas 77070-562	(281) 469-	DIV. OF OIL, GAS & MINING
New Operator:	410 17th Street, Suite 1 Denver, Colorado 80202 Citation Oil & Gas Corp. 8223 Willow Place South Suite 250 Houston, Texas 77070-562	(281) 469-	9664 DECEIVE DIV. OF OIL, GAS & MINING
New Operator:	Citation Oil & Gas Corp. 8223 Willow Place South Suite 250 Houston, Texas 77070-562	(281) 469-	DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Vernal Field Office

IN REPLY REFER TO:

170 South 500 EastPhone: (435) 781-4400 Vernal, Utah 84078-2799Fax: (435) 781-4410

3160 UT08300

February 17, 1999

Citation Oil & Gas Corporation Attn: Sharon Ward P O Box 690688 Houston, TX 77269-0688

Re:

USA Pearl Broadhust Wells 1, 2, 4, 5, 6, 7,

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19,

20, 21, and 22

Sec. 9 & 10, T7S, R23E

Lease U-02651-A Uintah County, Utah

Dear Ms. Ward:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Citation Oil & Gas Corporation is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. MT0630, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4492.

Sincerely,

Howard B. Cleavinger II
Assistant Field Manager for

Minerals Resources

cc: Ocean Energy, Inc. Amoco Production Co. Utah Div. Oil, Gas & Mining From:

<Margie_Herrmann@ut.blm.gov>

To:

<nrogm.krisbeck@state.ut.us>

Date:

Tue, Jun 1, 1999 11:18 AM

Subject:

Change of Operator

Here goes again! Let me know if you receive it. Thank you, Margie

#	Foil, Gas and Mining RATOR CHA		O RKSHEET				Routing: 1-KDR V	6-KAS /
			e division regarding th Write N/A if item is r				3-JRB	8-FILE
	ange of Operation of O	•	•	Designation of Ag Operator Name Ch		•		
The ope	erator of the w	ell(s) listed	below has change	d, effective: 1-	1–99			
TO: (ne	ew operator) (address)	8223 WIL	OIL & GAS COR LOW PL. SOUTH : TX 77070-562	STE 250	d operator) (address)	<u>410 1</u>	ENERGY RE 7TH STREET R, CO 802	
		Phone: (2) Account no	81)469-9664 D. NO265	· ·			(303) 573-5 t no. <u>N3220</u>	
WELL	(S) attach addition	onal page if nee	eded:					
Name: Name: Name: Name: Name:	*SEE ATTAC		API: 43 · 647 · 19 API: API: API: API: API: API: API: API:	Entity:	S S S S S S S	$\begin{array}{cccc} T & & R \\ T & & R \end{array}$	Lease:	
OPERA	ATOR CHAN	GE DOCU	MENTATION					
KDK-1.	(r649-8-10) form).	Sundry or ot (Rec	her legal documen (d. 1.13.99)	tation has been rec	ceived from t	he FORMI	ER operator (attach to this
KBP 2.	(r649-8-10) form).	Sundry or (fet a	other legal docum	entation has been	received fro	m the NEV	V operator (A	Attach to this
The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) If yes, show company file number:								
<u>D</u> P 4.	note of BLN	M status in o	DERAL WELLS comments section ily take place prid	of this form. BL	M approval o	of Federal	and Indian v	well operator
<u>L</u> 5.	Changes hav	ve been ente	red in the Oil and	Gas Information	n System (32	70) for each	well listed a	bove.
10/6.	Cardex file	has been up	dated for each we	Il listed above.				
1 77.	Well file lab	els have be	en updated for eac	h well listed abov	re. (*nuw .	filing sy.	stem)	
£8.	Changes have to Trust Land	e been includ ds, Sovereig	ded on the monthly on Lands, UGS, Ta	y "Operator, Addr x Commission, et	ress, and Accepte. 6.10.9	ount Change	es" memo for	r distribution

9. A folder has been set up for the **Operator Change file**, and a copy of this page has been placed there for reference during routing and processing of the original documents.

dons/wpdocs/forms/operchng

OPERATO	OR CHANGE WORKSHEET (continue) - Initial each item when completed. Write N/
ENTITY	REVIEW
UM 1.	(r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) If entity assignments were changed, attach copies of Form 6, Entity Action Form.
<u>W</u> 2.	Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.
BOND V	ERIFICATION - (FEE WELLS ONLY)
<u>И</u> А 1.	(r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
<u> </u> 2.	A copy of this form has been placed in the new and former operator's bond files.
3.	The FORMER operator has requested a release of liability from their bond (yes/no), as of today's date If yes, division response was made to this request by letter dated
LEASE 1	NTEREST OWNER NOTIFICATION OF RESPONSIBILITY
NA 1.	Copies of documents have been sent on to at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
	(r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated
FILMIN	G
<u>/</u> 1.	All attachments to this form have been microfilmed . Today's date: 8.3.99.
FILING	
1.	Copies of all attachments to this form have been filed in each well file.
2.	The original of this form, and the original attachments are now being filed in the Operator Change file.
COMMI	ENTS
990514 appnv	1011 Message w/ marju/B/m) regarding approval? 990601 Lec'd e-mail approval al Prom Marju (B/m)

DIVIDION VECIL, GAD AND IV	IIINING	
		Lease Designation and Serial Number: U-02651-A
SUNDRY NOTICES AND REPORT	TS ON WELLS	6. If Indian, Allottee or Tribe Name:
Do not use this form for proposals to drill new wells, deepen existing wells, or to Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN for		7. Unit Agreement Name:
1. Type of Well: OIL GAS OTHER: INJECTION		8. Well Name and Number: USA PEARL BROADHURST 2
Name of Operator Citation Oil & Gas Corp.		9. API Well Number: 43-047-15693
 Address and Telephone Number: 8223 Willow Place South, Suite 250, Houston, Texas 77070-5 	623 (281) 469-9664	10. Field and Pool, or Wildcat: Walker Hollow
4. Location of Well Footages: 2140 FNL & 500 FWL QQ, Sec., T., R., M.: SW NW SEC. 10-7S-23E		County: UINTAH State: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
NOTICE OF INTENT (Submit in Duplicate)		UENT REPORT Driginal Form Only)
Abandonment	COMPLETION OR RECOMPLETION AND L Must be accompanied by a cement verification d give pertinent dates. If well is directionally drilled.	on report. ed, give subsurface locations and measured and true
March 3, 2000 for the EPA.	DECE	'I\/CD
	RECE	IVELA

Accepted by the Utah Division of Ol. Gas and Mining FOR RECORD ONLY

COPY SENT TO OPERATOR Date: 4-21-00 Date: 4

APR 10 2000

DIVISION OF OIL, GAS AND MINING

13.	<u> </u>					
Name & Signature:	Sharon Ward	Sharon Ward	Title:	Regulatory Administrator	Date:	4/5/00
					-	

(This space for State use only)

(12\92)

(See Instructions on Reverse Side)

Mechanical Integrity lest Casing or Annulus Pressure Test

U.S. Environmental Protection Agency Underground Injection Control Program, UTC Implementation Section, SHM-DW 999 18th Street, Suite 500, Denver, CO 80202-2466

Field: W	arl Broadhu nlKer Hollon ==================================	w Unit	. Co		TU-026511 itatiin Oil	•
Time O min S 10 15	Test #1 990 - 	p si g	Test #2	_ psig	Test #3	paig
20 25 30 min 35 40 45	94,5			• • •		1000 1000 1000 1000 1000
55 60 min _ Tubing press _				psig		. psig

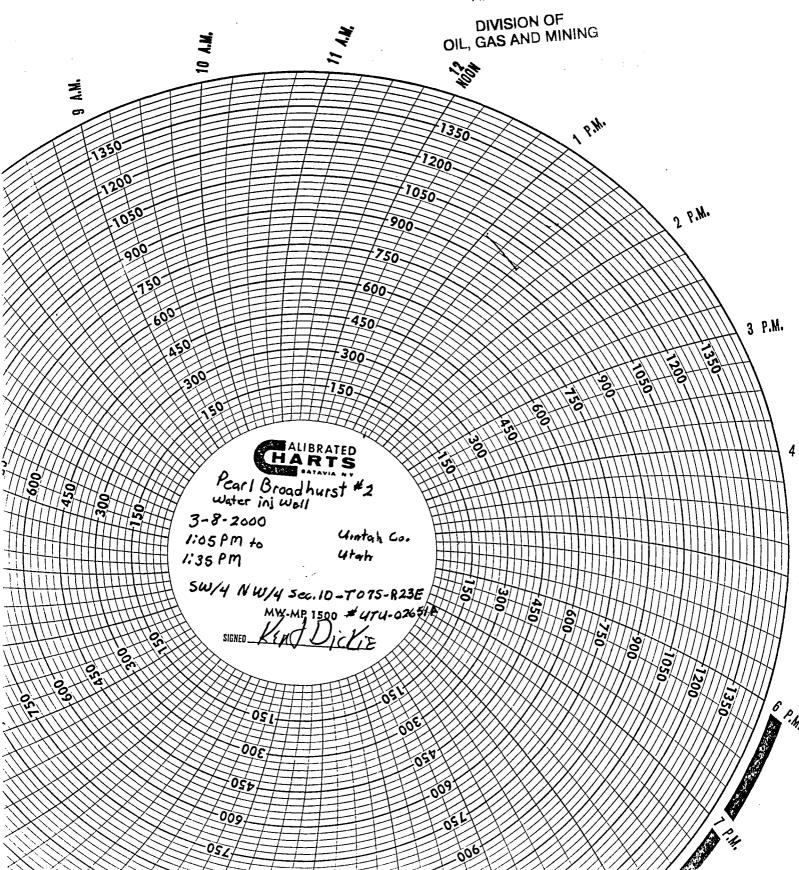
RECEIVED

APR 10 2000

DIVISION OF OIL, GAS AND MINING

RECEIVED

APR 10 2000



DIVISION OF OIL, GAS AND MINING

	,		5. Lease Designation and Serial Number:		
			U02651A		
SUNDR	6. If Indian, Allottee or Tribe Name:				
Do not use this form for pro Use APF	7. Unit Agreement Name:				
1. Type of Well:			8. Well Name and Number:		
OIL GAS	OTHER: Injection		IUSA Pearl Broadhurst #2		
 Name of Operator Citation Oil & Gas Corp. 			9. API Well Number: 43-047-15693		
Address and Telephone Number:			10. Field and Pool, or Wildcat:		
P O Box 690688, Houston,	Texas 77269 (281) 517-7800		Walker Hollow		
Location of Well					
Footages: 2140 FNL & 500	FWL		County: Uintah		
QQ, Sec., T., R., M.: SW NW	Sec. 10, 7S, 23E		State: Utah		
11. CHECK APPRO	OPRIATE BOXES TO INDICATE				
	OF INTENT		JENT REPORT iginal Form Only)		
(Sumatri	n Duplicate)	(Submit On			
Abandonment	New Construction	Abandonment*	New Construction		
Casing Repair	Pull or Alter Casing	Casing Repair	Pull or Alter Casing		
Change of Plans	Recompletion	Change of Plans	Shoot or Acidize		
Conversion to Injection	Shoot or Acidize	Conversion to Injection	☐ Vent or Flare		
Fracture Treat	☐ Vent or Flare	Fracture Treat	☐ Water Shut-Off		
Multiple Completion	☐ Water Shut-Off	Other Mechanical Integrit	ty Test		
Other			,		
		Date of work completion 4/11/05	5		
Approximate date work will start					
		Report results of Multiple Completions and R COMPLETION OR RECOMPLETION AND LO	Recompletions to different reservoirs on WELL		
		* Must be accompanied by a cement verification			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)					
Well was successfully MIT	T'd on 4/11/05 - a copy of MIT is at	ttached.			
Accepted by the Oil, Gas and Mining FOR RECORD ONLY					
13. Name & Signature: Bridget	Jisenhe Bridget I	Lisenbe Title: Regulatory As.	sistant Date: 5/18/05		

(This space for State use only)

(12\92)

(See Instructions on Reverse Side)

RECEIVED MAY 2 3 2005

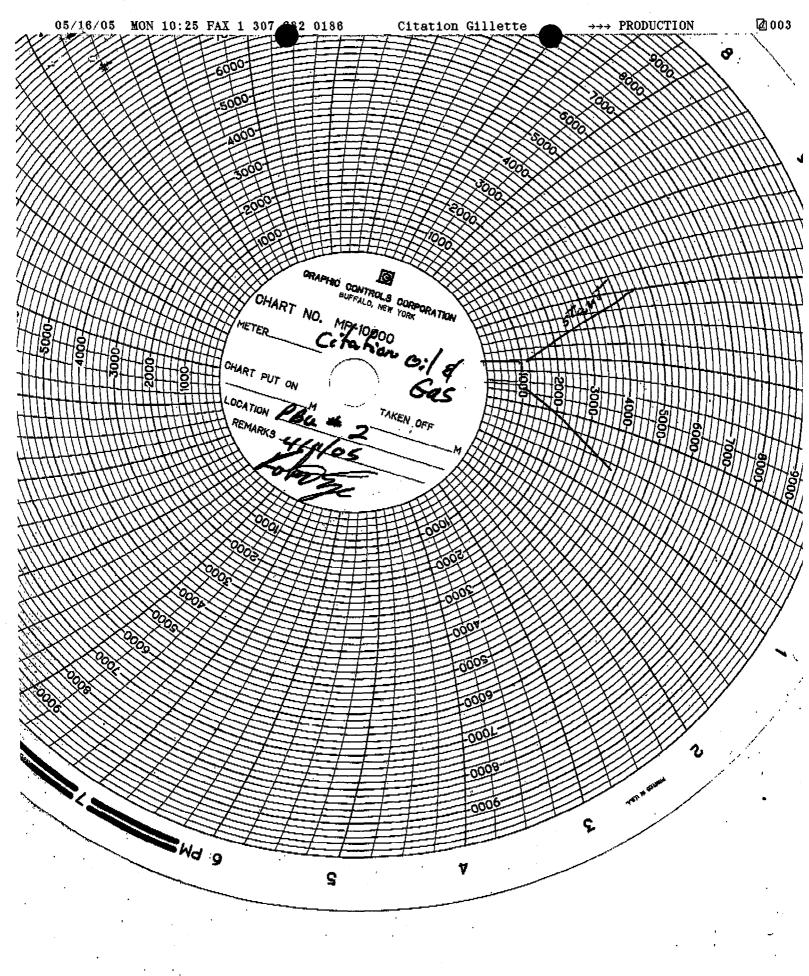
Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 December, CD 80202 2466

EPA Witness: NA		Da i	w 4 ///	65
Test conducted by:	effe d	Big Red Hot	Biler	
Others present: Deady	Hadbed - To	uit operat	A STATE OF THE STA	
Well Name Sec Bra Field (Walker Ho//O Location: Sw/www Sec	LU T20 NE	Type: EBC		AB TA UC
Operator: Company C Last MIT: 3 / 8	/2000 Maximum	Allowable Present	1609	PSIG
	(VIOAGIRII)	THUMAUE PESSU	An indicate challeng a control of	FAM RELIEF
Is this a regularly schedule Initial test for permit? Test after well rework? Well injecting during test?	Yes	[nt] No		20
men inflection annual reset.	[人] Yes		u 168, Pare:	bpd
Pre-test casing/tubing annul	lus pressure:	1350	psig	
Section in American	Topics in the second	The second secon		
MIT DATA TABLE	Test #1 PRESSURE	Test #2		Test #3
Initial Pressure	40 5 0 7 days - 120 - 10 1 1 10 10 1	osig	psig	psig
End of test pressure		esig	Psig	psig
CASING / TUBING	ANNULUS	PRESSI		
0 minutes	816 3.50 AMARIN AND AND AND AND AND AND AND AND AND AN	psig	psig	bsig
5 minutes	CONTRACTOR OF STREET	psig	psig	psig
10 minutes	1.2	psig	psig	paig
15 minutes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	psig	gisq	psie
20 minutes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	psig	psig	pse
25 minutes	0//	psig	psig	Ps S
30 minutes		psig		
inimites	955		psig	
		psig	psig	psig
innutes		psig	psig	psig
RESULT	(Pass)	Fail Pa	iss J]Fail	[] Pass] Fail

Does the annulus pressure build back up after the test ? [] Yes MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such volume of fluid added to annulus og head leak, tubing leak, other), etc.:



DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

RECEIVED

FORM 9

STATE OF UTAH APR 2 0 2010 5. LEASE DESIGNATION AND SERIAL NUMBER:

	DIV. OF OIL, GAS & MINI	NG U 1 UU2651A
SUNDRY NOTICES AND REPO	ORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells be drill horizontal laterals. Use APPLICATION FOR PERMIT TO	7. UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL OIL WELL GAS WELL OTH	HER Injection	8. WELL NAME and NUMBER: USA Pearl Broadhurst 2
2. NAME OF OPERATOR:		9. API NUMBER:
Citation Oil & Gas Corp.	Louovis Aviances	4304715693
3. ADDRESS OF OPERATOR: P O Box 690688 CITY Houston STATE TX	PHONE NUMBER: (281) 891-1576	10. FIELD AND POOL, OR WILDCAT: Walker Hollow Green River
4. LOCATION OF WELL		
FOOTAGES AT SURFACE: 2140' FNL & 500' FWL		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 10 7S	3 23E	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO IND	ICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
NOTICE OF INTENT	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT (Submit Original Form Only)	PLUG BACK	WATER DISPOSAL
Date of work completion:	PRODUCTION (START/RESUME)	WATER SHUT-OFF
4/9/2010 COMMINGLE PRODUCING FORMA	TIONS RECLAMATION OF WELL SITE	✓ other: Mechanical Integrity
CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly sh	ow all pertinent details including dates, depths, volum	nes, etc.
This well was successfully tested for mechanical integ	grity 4/9/2010. A copy of EPA MIT for	m is attached for your files.
	Accepted by the	
· ·		
	" was and Mining	
FO	R RECORD ONLY	
	ONLY	
Dele Henrie		
NAME (PLEASE PRINT) Debra Harris	_{TITLE} Regulatory Com	pliance Coordinator
SIGNATURE WILLIA WARKES	DATE 4/16/2010	
	DATE	

(This space for State use only)

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness:///	4		Data	4 , 0	1200	
Test conducted by: <u>Jeff</u> of thers present: Math T	Daks-CAGC 1	Lacare	Date: _	4 19	12010	
Others present: Matt J	eme - COGC	LEIOY	Carmickie -	Big Red Ha	+ Oil Service	
WTU-026511	7 ·		43-04	17.156	03 8	0.08439
Well Name: Pearl Broad	dburst # 2	•	Type: ER SW			u-v
Field: Walker Hallow	,)				as: (AC) TA	UC
Location: SW/NW Sec:	10 T 7 NA	S) R 23	(E)/W County	· Hintal	Ctata i	
Operator. Litation OIL	+ Gas Corp			· willian	State:	L. I
Last MIT: 4 / //	/ 05 Maxim	um Allowa	ble Pressure:	1609	PS	IG
***				<u> </u>	15	io J
Is this a regularly scheduled	l test? 🔀 Y	es [4]. No	•		د د و میه
Initial test for permit?	[] Y		No :			in the second
Test after well rework?		es ∷⊳≼	I No sui	,		The state of
Well injecting during test?	[] Y	es 📐	No at If Ye	s, rate:	· · · · · · · · · · · · · · · · · · ·	_bpd
Pre-test casing/tubing annuly		liona				
Pre-test casing/tubing annulu	is pressure:			psig		· · · • • • • • • • • • • • • • • • • •
MIT DATA TABLE	T 413				· 	,
TUBING	Test #1		Test #2	· · · :	Test	#3 : 🚓
Initial Pressure	PRESSURE		MAGE TO			
	1050	psig 👑		psig		psig
End of test pressure	1040	psig	3 10 mm	psig		psig
CASING / TUBING	ANNULUS		PRESSURE		<u>L.</u>	
0 minutes	1450	psig		psig		psig
5 minutes	1445	psig		psig	<u> </u>	psig
10 minutes		psig		psig		
15 minutes	1440					psig
20 minutes	1435			psig		psig
	1425	psig		psig		psig
25 minutes	1415			psig		psig
30 minutes	INA	psig		psig		psig
33_ minutes	1709	psig		psig		psig
minutes	1900	psig		psig		psig
RESULT	Pass	Fail	[] Pass	Fail	Pass	
	400 out side		1 1 2 400	1 1.44	11 1 433	[]Fail

Does the annulus pressure build back up after the test? [] Yes No

MECHANICAL INTEGRITY PRÉSSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: Coff Caba COGC	Mostles All -
Signature of Witness: Off Caba COGC	y we the
Copy: BLM; DOGM; CTL; DH	•

